

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:620:

GAATTCGGCC TTCATGGCCT AGCTGATGAT TCCAAACATT TNGTAAATTA ATTTTCTCT	60
CTTTACCTTT CAGCTTGGA GGAAGACAGA AGCCTTAACC TCCAGGGTAA CATGTTGCAA	120
TTTGTTCACT TATTAATCTA ACAAGAATGC ACTGAGGTGC TCATTAAATG TCAGACCTTG	180
TGTGAGGTG AGGAAATCCA AAAGCAAAGG AGGCATGAAC CTCCATGCCC ATTCAGAAGG	240
GCACAGGCC TTTAAGAAG GGTGGATATG CACAATTGA AAATAACTGA TAGTCCTGAC	300
TTATCTTGC AATTAATAAG GCAATTCAT ACACATTTA TACTCGAG	348

(2) INFORMATION FOR SEQ ID NO:621:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:621:

GAATTCGGCC TTCATGGCCT AGCAGGATGG CACCGGACCC CTGGTTCTCC ACATACGATT	60
CTACTTGTC AATTGCCCAA GAAATGCTG AGAAAATTCA ACAACGAAAT CAATATGAAC	120
GAAAAGGTGA AAAGGCACCA AAGCTTACCG TGACAATCAG AGCTTTGTTG CAGAACCTGA	180
AGGAAAAGAT CGCCCTTTTG AAGGACTTAT TGCTAAGAGC TGTGTCAACA CATCAGATAA	240
CACAGCTTGA AGGGGACCGA AGACAGAACC TCTTGATGA TCTTGTAAC CGAG	294

(2) INFORMATION FOR SEQ ID NO:622:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:622:

GAATTCGGCC TTCATGGCCT AGGTCAAGGG ACAATGAAAA TGTGACCCTT ACCAACGACA	60
GAAACTCCCA GGAAGCCACA ATTAACCTCA GACCACCAGG ATATTGGGG AAGTTTATCC	120
TTCTGGAAC CAGAATTTCT GATTGTGGA AAATTCTATA GATATTCTCT GCCAGACTCC	180
AGCCTATTTG TGTGAGACAT CTGGGGAGGC TCCCCTTTT TTCACCATT GAGGACTGAA	240
AGTAAATTTA GCTTCCTCAG CAGAAAGAAA AGAAGCTGTT TTGGAGGTTA GGAAGAAGCT	300
CGAG	304

(2) INFORMATION FOR SEQ ID NO:623:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:623:

```

GAATTCGGCC NTCATGGCCN ACTCTATTGG TGCAAAGTAA GATTTACATC TGTGTTTCAGA      60
ATCTTTGAGA TAATACCCCT TTTCTACATT TCTGCATTTT TTTTCTGTGA NCCCCACTAG      120
TATTNCNCCA TTTTNACCTT TTCATTTAAC TTATCCTCAC ATTATAAGAG ATGGATGACC      180
TATACAGACT TGGCCTTTGG GCTTTGGCTT CATTCAATAT CATCTTGGGT ACCACTGAAT      240
ACCGTTCAAT CTAGAGCTGG GTGGTAGGTT GAGATGTATA TTTCTAGCC CAGATCCCAG      300
AATCTAGAAG AAGTTAAATC TGATATGACT TTGATAAATA AGACAGTATG TTCTTCTAAC      360
CCCATCTCCC GTTCTCTGAC ACTGAACATA TATATGAAGT ATATATAACA TATACCGAGT      420
ATTTAAAATT TTAGAATAAA AATGTGCATT ACTGCACATC TTCCTGTCTT TCATTCTCTG      480
GTTGAGTTTC CCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:624:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 331 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:624:

```

GAATTCGGCC TTCATGGCCT AGAGCAAGCA GAGGTGGCCT GCGTGTGTAT GTGCTCATGT      60
GTATGTGTGC ACATGCATGT CTGTGTGTGG ATGCCCATGC GTGTAACATC TGATGTGGCA      120
CATGATACAA CATAATTTAT TTATTATAGA AACCTGCAAG TAAAGATTCA AGAGGAATCG      180
CAGATCCCAA TCAAAGTGCC AAGTGGTAGG TTACCCTGAC AGATAGTACC TCCTTTTTTT      240
ATTTTTCAAA TGCTGGCATA GTTTGTGTT CTTTACCAAC TCATTGATTT ACTGGGGACA      300
TCCTCTGTAC TTATCACAAC AGGTTCTCGA G

```

## (2) INFORMATION FOR SEQ ID NO:625:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 334 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:625:

```

GAAGTTGCAT TACACCTTCT CTTCTGAAGT AAACACTAAA AATATCAGGT AACTTCTGCA      60
TTAAATTTT TGCCATCTGA AGTGCTCCCA CTTACTATCT TCAGGTCTTG GCTTGACAGC      120
ATGGAAGCAA TGTGACTTGA AACAGCATGA TTTTTCAGAA CATCCTTCAG AAGTTCAGCA      180
TCCGCAAAAT AAATTATCCT AAGAATTGCT CTAAGGCACT TATGTCTGAC CGCAGGTCCT      240
GCTGAGGAAC TATACACTTC ATAAAGAACA CCAAATAATG TCTTAATAAA AGACTTAGCC      300
AGTTCCGGAT CCTCTTTCAT AAGCTGTGCT CGAG

```

## (2) INFORMATION FOR SEQ ID NO:626:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 371 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:626:

```

GAATTCGGCC TTCATGGCCT AGTCGGATTC CCAGTGGAAC TTTAGTAGTA CTCAGATCCT      60
CCTTTGTTTG GTGCGTAGTA TATTAACAAG TAAACCTGCC TGTATGCTCA CCAGAAAGGA      120
AACAGAGCAT GTCAGTGCTT TGATCCTGAG AGCCTTTTGG CTTACAATTC CAGAAAATGC      180
TGAAGGCCAC ATCATTTTAG GAAAGAGTTT AATTGTACCT TTAAGAGGTC AAAGAGTTAT      240
AGATTCCACT GTATTACCTG GGATACTCAT TGAAATGTCA GAAGTTCAAT TAATGAGGCT      300
ATTACCTATC AAAAAATCAA CTGCCCTCAA GGTGGCACTC TTTTGTACAA CTTTATCCGG      360
AGACTCTCGA G                                     371

```

## (2) INFORMATION FOR SEQ ID NO:627:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 522 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:627:

```

GAATTCGCCT TCATGGCCTA GATGTTTCAA TTTCGAAGTA CTTTGAAGT TTAGTAATGT      60
CAGAGTTGAA CATTTTCTGT AGCATGACTA TCGACTTGTC TTTTCAAGGC AGCCTGCAAA      120
GCCATTGAAC AAGCAAAGAC TCAAAACATC AATAAACTGG TTCTGTATAC AGACAGTATG      180
TTTACGATAA ATGGTAAGCT TTCACATTG ATTTCTTCTG TTTTCCAGT AACTGTGAAG      240
GGAAATTGGT AGGAGGTGTT GTAACAGGGC AGGACCCAAA TGGGAACGGG GGGATGACAT      300
TGGTTTGTC GGTACCGAGC AAAGAGTGAG GATTTTGGAG TCTCCCTTCT GCTGCTCTGA      360
TGTTTCCAC ATGCTTATTT CTTTGCCAGG CACTGGAGAT GCAGTCAGAA GTGGAAGTGG      420
CTCTTACTTC TAGTCTGTGT GTGTATAAGT CACTTAAGAT GCGGTGTTGA CTGCTTCTTT      480
GGGAAATGCC CTGAATAGGA GCATGTAGGG GATGTGCTCG AG                               522

```

## (2) INFORMATION FOR SEQ ID NO:628:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 212 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:628:

```

GAATTCGGCC TTCATGGCCT ACAAATATC TGTGGGAAGG TGAGCTACTT AGCATTCAAC      60
AATGCAAAGT TTCAAAGCAT TTTGCAAATT TTAAATATAC GCTATAATTC TTCTGTAATT      120
GGTGTCTTTG GTACTTTTGG GGTAAATTGG AGTTATTCCA AAATAATTAT ATTTTATAGC      180
ACTTTTGACA CCATAACACT TAGCATCTCG AG                               212

```

## (2) INFORMATION FOR SEQ ID NO:629:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 358 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:629:

GAATTCGGCC	TTCATGGCCT	ACTCCTTCCG	CGCGAGTCTC	TGGAGAAGCC	GCAGCGCGAG	60
TTGCCCGCCG	TGCTGCCCGG	GGCCGGCTTG	CCTTGCGCCA	TGGACTGGCA	GCCAGACGAG	120
CAGGGCCTGC	AGCAGGTCCT	GCAGCTGCTC	AAAGACTCAC	AGTCGCCCCA	CACAGCCACT	180
CAGCGCATCG	TGCAGGATTA	ACTCAAACAA	CTCAATCAGT	TTCCTGACTT	CAACAACACT	240
CTGATTTTCG	TCCTGACCAG	ACTCAAGTCA	GAAGATGAGC	CAACGCGCTC	TCTCAGTGCG	300
CTCATCTCTA	AGAACAACGT	GAAGGCACAC	TATCAGAGCT	TCCCACCCCC	CGCTCGAG	358

## (2) INFORMATION FOR SEQ ID NO:630:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:630:

AAGAGAACAA	TAAAATAGGC	AGTCTCCTAC	CTCTTGCTTT	ACTCTAATAT	AAACTCCATG	60
AAGATAAGTA	TTGTATCCAT	ACTGTTTCATG	CTGCACAGCA	GTGCCCCTTA	TCTGCAGGGC	120
GACGCATCCC	AAGACCCCCA	GTGGATGCTT	GAAACTGCAG	AACTCGAG		168

## (2) INFORMATION FOR SEQ ID NO:631:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 477 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:631:

GAATTCGGCC	TTCATGGCCT	ACATAACTGC	ATTCTGACCT	CCTTCTTGCA	GTGCCAAGAG	60
AAATGATGCT	GAACATAAGTG	CGGGGTGTGG	GGTCGTTCTC	AAAATGCGGT	CATTGCTACA	120
GAAGTAGGGT	TTTTGGTTAG	TTACATNCTT	TGTGGAAGGA	CAGGGTGGTG	GGTACAGGTC	180
CCTGAGAAGC	AGACATGTGG	AATTGTTTGA	GACAATCCTA	CTCCCTGTGG	TACTCTCTCT	240
ATGTATATAT	TCCAATGAAG	GTAATTACCT	TCATGCTTTC	CTAAATACAT	AAATCTTTAC	300
ATTTCAAATG	CCTTGTTAGA	CTGTACTCAA	GATTCCAGAG	ACATTTTAAA	ATAATTCATT	360
TTCAAATCAT	AAATTTGGGA	AANGGGGCCC	TGGGATAAGC	AAGTTGACTG	GGCCACTGCT	420
TATGCCATTC	CCTGCACAAT	TCTGGGCATG	GAGCAGCTCT	CCCAGAGCCC	ACTCGAG	477

## (2) INFORMATION FOR SEQ ID NO:632:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:632:

GAATTCGGCC	TTCATGGCCT	ACTGCCTCCT	GATGAAGTCC	CTACTGTTCA	CCCTTGNAGT	60
TTTTATGCTC	CTGGCCCAAT	TGGTCTCAGG	TAATTGGTAT	GTGAAAAAGT	GTCTAAACGA	120
CGTTGGAATT	TGCAAGAAGA	AGTGCAAACC	TGAAGAGATG	CATACAAAGA	CTACAAGAAT	180



TTCAACAGTA ACAGCAACAA CAGTCAACAA CAACTTTGAT GATGACTACT GCTTCGATGT	240
CTTCGATGGC TCCTACCCGT TTCTCCCACT GGTGGAACAT TCCCAGCCTC NGTCTCCTGC	300
TCTAGGATCC CCGACCCATT AAGACTCGAG	330

## (2) INFORMATION FOR SEQ ID NO:633:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:633:

GAATTCGGCC TTCATGGCCT AGGAGAAGGC CCTGCAGGCC GCATATGGCG CCAGCGCCCC	60
CAGTGTGACC TCGGCTGCCC TCCGGTGGAT GTACCACCAC TCACAGCTGC AGGTAACCAG	120
CGACCCCTGGG TGCTCAGCTT CTTCCTTCC AGGGGGACCA GCGTCACCTT TAGGTGAAGC	180
CCAAAGCATT TGATTTCTGA ATTCTCTGA AATTTTCTT TCTTCCAATT CTCATAAGCA	240
CTCTCCCACT TGGTCTTGA TGGTATCTGA GTGGAGGCTT TGTAAGTGGG GATTTTCATT	300
ACAGGGATTT TCTTATCCT TAGGCTTTCT GAAGTATGAT TATCCCAGTG TTATTGATGA	360
GGAAACCGAG GTTCACCCAG CTATTCTCGA G	391

## (2) INFORMATION FOR SEQ ID NO:634:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:634:

GAATTCGGCC TTCATGGCCT AAGTACAAAT ACCTATTATG TTGGTTGGGA ATAAGAAAGA	60
CCTGCATATG GAAAGGGTGA TCAGTTATGA AGAAGGGAAA GCTTTGGCAG AATCTTGGA	120
TGCAGCTTTT TNGGAATCTT CTGCTAAAGA AAATCAGACT GCTGTGGATG TTTTTCGAAG	180
GATAATTTTG GAGGCAGAAA AAATGGACGG GGCAGCTTCA CAAGGCAAGT CTTCATGCTC	240
GGTGATGTA TTCTGCTGCA AAGCCTGAGG ACACTGGGAA TATATTCWAC CTGAAGAAGC	300
AAACTGCCCG TTCTCCTTGA AGATAAACTA TGCTTCTTTT TTCTTCTGTT AACCTGAAAG	360
ATATCATTG GGTGAGAGCT CCCCTCCCTT CAGATTATGT TAACTCTGAG TCTGTCCAAA	420
TGAGTTCACT TCCATTTTCA AATTTTAAGC AATCATATTT TCAATTTATA TATTGTATTT	480
CTTAATATTA TGACCAAGAC TCGAG	505

## (2) INFORMATION FOR SEQ ID NO:635:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:635:

GAATTCGGCC TTCATGCCTA CAAATATGTC CTCTGTCAAG ACCCCTGAAA CAGTTGTCCC	60
---	----

CACAGCCCCT GAGCTCCAGA TTTCCACCTC CACAGACCAA CCTGTCACCC CTAAGCCCAC	120
ATCTCGGACC ACTAGGAGCA GGACAAATAT GTCCTCTGTG AAGAACCCTG AATCAACTGT	180
CCCTATAGCC CCTGAGCTCC CACCTTCCAC CTCCACAGAG CAGCCTGTCA CCCCTGAGCC	240
CACATCTCGG GCTACTAGGG GAAGAAAAA TAGATCCTCT GGCAAGACCC CTGAAACACT	300
TGTCCCCACA GCCCCTAAGC TCGAG	325

## (2) INFORMATION FOR SEQ ID NO:636:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 201 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:636:

GAATTGGCCT TCATGGCCTA GCTTCCTCTT CAAAAATGTG TCTACCTAAG ATACTATTAT	60
TTAAGCCTCT GTGTACTTTT AACCGTAGAA CTGATTTTAT AGGAAGACGA AACTTGTCGG	120
CTTTCAAGAC ATGGAGTGTG TGCCTTGTGG AGACCCTCCT CCTCCTTACG AACCGCACTC	180
TCATCCACAA AGAACCTCGA G	201

## (2) INFORMATION FOR SEQ ID NO:637:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 417 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:637:

GAATTCGGCC TTCATGGCCT AGGCAAAGCC TGAAAGTCCT TGGACTTCTC TGACCAGAAA	60
GGGAATTGTT CGAGTTGTAT TTTTCCCCTT TTTCTTCCGG TGGTGTTTAC AAGTAACATC	120
AAAGGTCATC TTTTCTGGC TTCTTGTCCT TTATCTTCTT CAAGTTGCTG CAATAGTATT	180
ATTCTGCTCC ACTTCTAGCC CACACAGCAT ACCTCTGACA GAGGTGATTG GGCCGATATG	240
GCTGATGCTG CTCCTGGGAA CTGTGCATTG CCAGATTGTT TCCACAAGAA CACCCAAACC	300
TCCTCTAAGT ACAGGGGGTA AAAGAAGAAG GAAATTAAGA AAAGCAGCCC ATTTGGAAGT	360
ACATAGGGAA GGAGATGGTT CTAGTACCAC AGATAACACA CAAGAGGAAT GCTCGAG	417

## (2) INFORMATION FOR SEQ ID NO:638:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 351 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:638:

GAATTCGGCC TTCATGGCCT ACCCTCCTCC AATGAGTCCC GCCAATGCCC CAATGCCCCG	60
TGCCAGTTCG CTTTCTACGG TGGTGAGTCG GGCTACCACC GGGCCCTGCT GGGCCTGCAG	120
ATCTTCAATG CCTTCATGTT CTTCTGGTTG GCCAACTTCG TGCTGGCGCT GGGCCAGGTC	180
ACGCTGGCCG GGGCCTTTGC CTCCTACTAC TGGGCCCTGC GCAAGCCGGA CGACCTGCCG	240

GCCTTCCCGC TCTTCTCTGC CTTTGGCCGG GCGCTCAGGT ACCACACAGG CTCCCTGGCC 300  
TTTGGCGCGC TCATCCTGGC CATTGTGCAG ATCATCCGTG TGATACTCGA G 351

## (2) INFORMATION FOR SEQ ID NO:639:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 567 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:639:

GAATTCGGCC TTCATGGCCT AATTTTITTTG AGACAGAGTC TTACTCTGTT GCCCAGGCTG 60  
GAGTGTGGTG GTGCGATCTC GGCTCACTGC AACCTCTGCC GCCTGGGTTT AAGCTATTCC 120  
CTGCCTCGGC CTCCCAAAAT ACTGGGATTA CAGGCGTGTG CCGCTGTGCC CAGCCGCTGT 180  
CTAGTCTTTT AAAACTTGGT GTTTGAGCAT GCACATTCTC CTTCTGGAAT ACCTGATCAC 240  
CCAGCACAAC TCACGTTNTC TTTCTGCTGG CTACCCCTGC CTTGCTGTGA CTGTGTCATG 300  
GTTCTCAGCT AGACTCGGTG GCGTGTTTGA TGGCCCAGGC ATCGTCTGCC CAGTGGGTGT 360  
CCTGTTACCC ATGTATGACA GACTGTACCC AAGATATCAG TCTTACGAAT AAGGCCACGA 420  
TGAACACTTT GAGCTTTTTC TGTATCTAGC ATATCCCCAG GGTAGATGCT CAGGCAGGAA 480  
ACTGGTGGGA GATGAGGGAT ACACAGATGG CTCCCNACAG GTGCTGTGAG GTGCTCAGGA 540  
GTTTATCATC ACTTAACTGA GCTCGAG 567

## (2) INFORMATION FOR SEQ ID NO:640:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:640:

GAATTCGGCC TTCATGGCCT AGCTCCGCAN AGGTAGGGAG GGAAGGGCCC CTCAAATANA 60  
TGGAGGGAGC AACATCCCTC CAAGGGAAAG GGCTTCCAAN ACNAAATCCT GGACAGAAGC 120  
GGAGCANGGG ATGGGCCTCC TTACAGAGCA GGAGGAAGAC AGCGCTCTTC NAANANGAAA 180  
GGAGAGGGGC ATCAAGGTCC CTCACAATGG TGGAGGGGGC GGGGCTTCTC ACCGAAGGCA 240  
GAGGAGGGGG CCTTAACTGA GGGGCAGGGC GCCTCCAGG GATGAAAGGA GGAGGCCTGC 300  
CGCAGAGCAG GGA AAAAGTT CAGTCCTTTC CTGCATTTCT TGGCTGAAGG GGTCTTAAGA 360  
TGAAGGGTTC AGTGTCCAGA AGGAAAAAAC CCTGAGATGG GCCTAGACCA ACATGAACTC 420  
AGCTAGCAAG TTCATACATG ACATGGGACT GATAGACTTG TGTGGCATCT CGAG 474

## (2) INFORMATION FOR SEQ ID NO:641:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:641:

GAATTCGGCC TTCATCCTTG AGAATATCAG AATTAGAAAG CCAGGTTGTT GAAATGCATA	60
CTAGTTTGAT TTTAGAAAAA GAACNAGTAG AAATTGCAGA AAAAAATGTT TTAGAAAAAG	120
AAAAGAAGCT GCTAGAACTA CAGAAGCTAT TGGAGGGCNA TGAGAAAAAA CAGAGAGAGA	180
AAGAAAAGAA AAGAAGCCCT CAAGATGTTG AAGTTCTCNA GACAACTACT GAGCTATTTT	240
ATAGCAATGA AGAAAGTGGA TTTTAAATG AACTCGAG	278

## (2) INFORMATION FOR SEQ ID NO:642:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 413 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:642:

AGGGAGAGGA GGCTGGGAAC AACGTGACCC ACTAAGGATT CTGCTCCAAG GACAGTGGGT	60
TTCCCGCTGG GCACCCACTC TTAAGTGCAG ATCGGGAGAC TAAGACAGGA ACACCCGCCG	120
TGGGCAGGCC AGGCTGGAAG GATAGAGGAC TGTGGTCGAA CCAAGAGGAG GTTCAACTGT	180
GACTTATGCC AGTGTGGTCA CGAAGGCAGA TGGGTGAAAC TGAAAAGGGG GCACCGGTTT	240
CTGGCATGGA GGCACCCAAG GTCTTAGGAG GTGGATGGAC TGTCACATGG GCAAAGAAAT	300
GTCCCAGGGC AGGACTGCAA AGGCCACAGA AGAATAATTT GGGAGAGAGA CAACCCATGA	360
GAAGTCACTC AGACCAGGGT CAGAAACAGA ACAGGAACAA CAATGGACTC GAG	413

## (2) INFORMATION FOR SEQ ID NO:643:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 658 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:643:

TTTCNTCCCT TNGAATGTTT GTCCCTTTTT CCTGTTTTTT TTTCGCACAA AATTNCAAGT	60
TNTACCAAGC AAACATTAAA TCCAAGTTGG AATTTTAATT AAGGAATTCG GCCTTCATGG	120
CCTACTGGTG CCTTCCCGGA AGGGCTCAGA GCGGGGCTCG GGCAAGCACT TTAACCTTTT	180
AAGCCCAACC AGATGAGTTG CTGTCAGTTT TGGAGGCCTT CAGAGCATTT CACTAGACCT	240
CTGTCTGTGT CGGTCCAATG TCTTTAGCCA AGCTTTGATT AAAGATGACT TCCTTGTTTG	300
CTCAAGAAAT TCGCCTTTCT AAAAGACATG AAGAAATAGT ATCACAAAGA TTAATGTTAC	360
TTCAACAAAT GGAGAATAAA TTGGGTGATC AACACACAGA AAAGGCATCT CAACTCCAAA	420
CTGTTGAGAC TGCTTTTAAA AGGAACCTTA GTCTTTTAAA GGATATAGAA GCAGCAGAAA	480
AGTCACTACA GACCAGGATT CACCCACTTC CACGGCCTGA GGTGGTTTCT CTTGAGACTC	540
GTTACTGGGC ATCAGTAGAA GAATATATTC CCAAATGGGA ACAGTTTCTT TTAGGAAGAG	600
CACCATATCC TTTTGCTGTT GAAAATCAAA ATGAAGCAGA AAATACCATT CCCTCGAG	658

## (2) INFORMATION FOR SEQ ID NO:644:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:644:

GAATTCGGCC	TCATGGCCTA	CCAAAGAGTG	TTATACATGC	TCAGCAAACA	ATATCTACAG	60
GAACTAGCCC	TCAGGAAAGT	AAAAAAAAAA	AAAAAAAAAG	GCAGCAGAGG	GCCAGCCCAT	120
TCTTCTCATA	GCTCACTGAT	ACACTTGGTC	ACATTCTGCC	ACTACCTGCA	AGGGAGGCTG	180
CGGAAAGGTA	TCCCTACAGA	GGCAGACGTG	CCCAGCAAAA	ACTTTGGCCG	GTGGGGGGAC	240
ACTCCATGAC	AAAAAATACA	AAGGAGAGAA	TGGGAGCTCG	AG		282

## (2) INFORMATION FOR SEQ ID NO:645:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:645:

GAATTCGGCC	TTCATGGCCT	ACCTTTCTCT	GACCTGTGCC	CTCGGCCTCT	TGGCCTCCAT	60
CGCCATGACC	TTTGCCACCC	AGGGCAAGGC	ACTGCTGGCT	GCCTGCACTT	TTGGGAGCTC	120
TGAACTACTG	GCCCTCGCAC	CTGACTGTCC	CTTCGACCCC	ACACCACTCG	AG	172

## (2) INFORMATION FOR SEQ ID NO:646:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:646:

GAATTCGGCC	TTCATGGCCT	ACCAGAAACC	GGCCAGGCAA	GGAAAGAGGC	CGGTCACCAG	60
AAGCCAGCAG	GCGTGGGGTG	TGATACTCTC	TATAGCCACT	ACAGGGCGCG	CGCAGGTTCG	120
GGATCTCCCC	AGTTGCTAAT	CCCGGCTCTG	CCACTCAATC	CTATCCCTAG	TTCCCGAGCG	180
CGGGTCCCCC	GCCTTGCACT	CTCCAGCCGT	GCGGGGCCCG	GAGCAGGCCT	CCGGCCTCCC	240
AGACTTCTAG	AGCCCGCCGG	GCCCATCTTT	GTACTCATCC	ACCCCGGCTC	GAG	293

## (2) INFORMATION FOR SEQ ID NO:647:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:647:

GAATTCGGCC	TTCANGGCCT	ACAGAAACAG	AAATGCTAAC	TGAAATGTAT	TCTTCTAACA	60
AAGCATTTCT	AACTTTCTAG	AATGTAGTCT	TTCATTTTTC	TTTATCTTTT	TTTCTAGTTT	120
TCCCAAATAT	ATACTTTGGC	CATTTAAATA	AATGGCCAAA	GAAATGGCCA	AAAAATGCTT	180
TATTTAGTTT	TTGTTTTATT	ATGAAGGATG	ATTACTCTTT	AATGCTGCTA	AATCTTTTTC	240

TAGCTCTGTA TTTCACCTCA AGAAAACTCG AG

272

## (2) INFORMATION FOR SEQ ID NO:648:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:648:

GCGAGCTGTT GGGATTACAA AGTTGCGCGT TTCATCGGTA CAACTGGTC TTTGAACCTC	60
CTTTGTGAGA GCAATTGTAG TGTCCAAATT GTTAGGGAAA AAAAAAAAAA AAAATCCCAA	120
GGAGGAGGGT TTTCCCCCT TCCCTGTTG GTTATCACA GCATTTTGCT TTTTTTTGG	180
CACAGCTTTT TACGTTCTT TCCATTGAGC CATCACAGAG CCTGTTCCGG GTGGAAACCA	240
ATCCACACGC CTCGAG	256

## (2) INFORMATION FOR SEQ ID NO:649:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:649:

GAATTCGGCC TTCATGGCCT ACCCACCTTG GCCTCCACA GTGCTGGGAT TCCAGGCGAG	60
AGTCCCTGCG CCCAGCCCCA CTGTCTATT CTGTTTTTG CTGCCTGTTT TTGGTGCTT	120
ATCTGCACAT GAATATTTAT AGCAGCTTTA TTCATAATTG CCAAACCTTG GAAGAAACCA	180
CAATGACAAT GTCCTTCTAT AGGTACACCC ATACAATGGA ACATTCAGTG ATAAATGAG	240
CCATCAAGCC ACCCAAAGG CTCGAG	266

## (2) INFORMATION FOR SEQ ID NO:650:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 490 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:650:

GATTCTCAG CTTTGAACA GAGTGGACTT GTCAATATCA GAGCAGAGCA CCAAACCTGAA	60
GATGTCTCAC AGAGACAGTA ACCACCAGCT TCAGCTTTTG GACACTAAAT TTAAAGGTAC	120
AGTTGAGGAA CTCAGTAACC AGATATTATC TGCACGGAGT TGGTTGCAAC AGGAACAAGA	180
ACGGATAGAA AAAGAGCTTT TACAGAAAAT TGATCAGCTT TCCTTGATTG TTAAGGAAAA	240
CAGTGGAGCC AGTGAAAGGG ATATGGAGAA GAAGCTCAGC CAGATGTCAG CCAGGCTTGA	300
CAAAATAGAA GAGGGTCAAA AGAAGACTTT TGATGGTCAG AGAACAAAGGC AAGAAGAGGA	360
GAAGATGCAC GGGCGAATCA CCAAGCTGGA GTTACAGATG AACCAGAACA TCAAGGAAAT	420
GAAAGCAGAA GTTAATGCTG GGTTCACAGC CGTCTATGAA AGCATAGGAT CCCTCAGGCA	480
AGTTCTCGAG	490

## (2) INFORMATION FOR SEQ ID NO:651:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 498 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:651:

```

GAGATAGAGG GGACCCTGGC TATGGACATT TTGAATTATG TCGGGAGAGC TGATGGANAA      60
AGAGGCTCCN GGAGGACTGG TTAAACTGAA GCCNGGAATG AGATGAAATG TATAAAATTC      120
TCTTGAATGA TTATGAATAT CGTCAGAAAC AAATCNTAAT GGAAAATGCA GAACTTAAGA      180
AGGTTCTTCA ACAAATGAAA AAGGAAATGA TTTNTCTTCT TTCTCCCCAA AAGAAGAAAC      240
CTCGAGAAAG AGTAGATGAT AGTACAGGAA CTGTTATTTC CGATGTTGAA GAAGATGCCN      300
GGGAACCTAG CAGAGAGAGT ATGTGGGACC TTTCTGTGTA AACTGTGAGA GAGCAGCTTA      360
CAAACAGCAT CAGAAAACAG TGGAGAATTT TGAAAAGTCA TGTAAGAAAAG CTTGATAACC      420
AAGTTTCAAA GGTACACCTG GAAGGTTTTA ATGATGAAGA TGTAATCTCA CGACAAGACC      480
ATGAACAAGA AACTGAAA

```

## (2) INFORMATION FOR SEQ ID NO:652:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:652:

```

GAATTCTTCT TTCTCTATAA ATTTGCCTAC TATTGAAGAT TCTTCAGAGG AAGAAGAATT      60
GAGAGAGGAA GAAGAATTAT TAAAGGAGCA AGAAAAGCAG AGGGAAATAG AACAGCAACA      120
AAGAAAGAGT TCTAGTAAAA AATCAAAGAA AGACAAAGAT GAACTTCGAG CTCAGAGAAG      180
AAGGGAAAGG CCAAAGACTC GAG

```

## (2) INFORMATION FOR SEQ ID NO:653:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:653:

```

GGAAAGAAAN GGACAAACCT ATAAATTAAC TCAACCTATA TCTCCCTTGA AAATACTTTC      60
AGGCTCCACC AAAACGTAGA ACTGAAAGCA TGTATTTTGG AAGAAAGAGA TACATTTTGT      120
ATGCTTTCTT TTCCTTTTGT AGATTCCCAG TTTATTTTCT AAGACTGCAA AGATCACTTT      180
GTCACCAGCC CTGGGACCTG AGACCAAGGG GGTGTCTTGT GGGCAGTGAT GGGGNCCTCG      240
AG

```

## (2) INFORMATION FOR SEQ ID NO:654:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 241 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:654:

GATTCGGCCT TCATGGCCTA GGGAGGAGAA GAAGGGGGAG AAATCACAAA GAGATTGGGG	60
AGGAGATGAA GTAGCAGGGC TCAGCGATTC TTTCAATTCC AGTGACACACC CAATAGTGTG	120
TTGGAAGAAT GCACACTGTT CGGGATTTGT GGGAGAATTG TCCCATGACA AAGGAGGCAG	180
GGTTATGCTT GTTATAGTCC AATAAGCCGT GCCAGTCAAA CAAGAACCCA CACTCCTCGA	240
G	241

(2) INFORMATION FOR SEQ ID NO:655:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 278 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:655:

GAATTCGCCC TTCATGGCCT AGTGGTGAGA CTGAGCAGAT TTAATTAATG TCTGTTATGT	60
TCAGGGCACA AGGGTGAGCT CTTCGAGGG GCTGATGCAC TGGGTGTGGA GCTGAGCAGA	120
GAGGCCTAAC CAGGATCAGG CAGGAGGGCA GGGATGGTGG CAGCCATAGG AGGGCAGGGT	180
AGGGTAGGGC CTCTGAGGAG GAGGGAAAAA GTGAAGGAGA GGCTTTGGAC CTGGTGACAG	240
AGTGATCAGA TGACAGAGGG GTTTTGGGA GACTCGAG	278

(2) INFORMATION FOR SEQ ID NO:656:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 224 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:656:

GGAAGGAGAA GTGGAGAAGA AATCAGTCAG CCGCAGTGAA GAGCTCAGAA AAGAAGCAAG	60
ACAAATTAAAA CGGGAAGTCT TAGCAGCAAA ACAAAAAAAA GTAGAAAATG CAGCAAAACA	120
AGCAGAAAAA AAGAAGTGAA GAGGAAGAAG CCCCTCCAGA TGGTGCTGTT GCCGAATACA	180
GAAGAGAAAA GCAAAAGTAT GAAGCTTTGA GGAAGCAACT CGAG	224

(2) INFORMATION FOR SEQ ID NO:657:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 253 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:657:

```

ATACAGTAAT CAAAGTAAGT AATATTTCAA TCCAATATTT TAAAAAATCA GAATTAATGC      60
AAAAAAAACC ATGATGAACA AAATATTAAA ATTTAAAATA AAGACAGGAT TAGTATTACT      120
GAGTTTTCCT TTTGTCCCAG GCTCTAATAT GGCTTGGCAT GGGGCAGAAC ATTACAACAT      180
ACCAGTCGTG TCATGGTGGC CAAGGCTCCA CAGACCTCAG TGGCTCCCTG CTGCCTGCCA      240
CAGCAATCTC GAG                                                           253

```

(2) INFORMATION FOR SEQ ID NO:658:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:658:

```

GAATTCGGCC TTCATGCACT TTTGAGCATC AGTTTCTTTT CACTCCTTCT TCATGTGCTA      60
TTCCTTCCAA ATCTTTCCCA CCTTCTTCTT TCTCTCCTCT GTCTTTTCTT CTCCCTCTTC      120
TGTTGTCTTC TGGTTTCCAT CTGTTTCTCC TTCTCCTTCC CCATTTCTCA CTATCCTCTC      180
TTCTGTCTCC TCACTTACTT CTCCATCCCT CCTCTCTCCA GCCCTCTCTC CCCCCTGTCT      240
CGAG                                                           244

```

(2) INFORMATION FOR SEQ ID NO:659:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 75 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:659:

```

GAATTCGGCC TTCAGCCTAG TCTCAAACCT CAAGCAAACC TCCTGCAATC CCAGCGCTTT      60
AGGAGGCCGC TCGAG                                                           75

```

(2) INFORMATION FOR SEQ ID NO:660:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:660:

```

GCNTTCATGG CCTAAGTTCA CCTTTAANTC TTTCATGACC ATTTCCAGAN GCCCTTACCG      60
TGGGCTATCT TAGCTTGATG TGCTAATCAA GTTCCCCCTA ATTTGACATA CTAGAATCTA      120
ATACTAGAGG CAGCATGACA TTATTAAGGG GGAGGAGGTT GAGAAGCACT AACCTCGAAG      180

```

TTAGAATTTTC TGGTTTGTCA TCCCAGTCTG CTAATTAGCT TTCTGATTTA AGACAAAATA	240
CTTTTCTGT GCCTTCTGGG GGTCAAATTC GATTTTAAAG ATTCTCTCAG TTGGAAGAAA	300
TCTAACTAAA AATATACTTA AAATAATTCT TTGGTAGTAT ATTATTTTGA AATTTGGTCC	360
AGAATCCTAT TTGTTTATTC CTGTAGTATA CATACATCTG TAGTTACCCA GCAAGCGCGC	420
TCCCTATAGT GAGTCGTATT AATTTAGAG	450

## (2) INFORMATION FOR SEQ ID NO:661:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:661:

GAATTCGGCC TTCATGGCCT AGAGAAAAAA AATTAGAGTG ATTTTCAGGAC TCAAAGGAAG	60
AGCCTTGCAA AGAGTTGGGA GGATTAACT CTATGGATT AAGCTCTGCC TGCAAAATAA	120
CATCGCTGGG AATTTAGACA CAAATTAGGA ATATTCTGGA ATTCATTTAG CAGCAAATCT	180
CCTGACTAGT TGTCAAATGG AGCTGTTCTA ATTGGCCTGT TCTAAATGGG CCTGTCCTAA	240
TTGCAGAAAT ATTGCAGAAT ATGTTTTTAG TAAGCTCTCT ATAGAAAGTC ACCTCTGAGT	300
TGCTCAGCAT TTAGATTCAA ATATTCAAAT GTTTTAA AATGCCAGCA TATCAATTAT	360
ATTGAAGAA CAGTATAGAG GCTTGAACA TGCCAAACAG CAGGGAACAG GAATAACCTT	420
TAATGAGTGC CTAATCTGGT GCAGGGTCCT TTACACACAT TACATTATGT GATCTTCACA	480
ACAAACCGAC TCGAG	495

## (2) INFORMATION FOR SEQ ID NO:662:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:662:

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGGCC TTCATGGCCT ACGAGGAAAG	60
GTGAGAGAGA TGCGAAGTTT CTGGCTTTGA AGATGGGGAA AGGTCTCCAG CCAAGTGTGA	120
GCAGCCTCTA AGAGTCAGAG AAGCCAAGGA ACAGCTTCTA CTCTAGAGCC TCCAGAAGGA	180
TGGCAGCTCT GCTGATGTCT GGCCTTATCT CAGGGAGCCC TGTTGGATTG TGAGCTGGTG	240
GAACTGTGAG ATAATGACTG TGGTGTTTAA GCCAGTAAGT TGGTGTAAAT TGTTAATGTG	300
ACTGCAGAAA CCCAATAGAC CGAGTGCCTG TTGGGCTCTC CCTGTACAAA GGCAGAGGGA	360
CAGCAAGTGT GAGCAGGCCC TGCTGTGAGG TAGAGGGCAT CCTCTGAAGT GTGTGGGGAA	420
GGGGGAGCCT CACATGAGCC CAGGGCTGCC ACATGTTTCA TCTGAGCGCT CGAG	474

## (2) INFORMATION FOR SEQ ID NO:663:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:663:

```

GAATTCGGCC TTCATGGCCT ACTCTACTCG TCGGTGCTT CTTCTCCTTG GCATACAGCT      60
CACAGCTCTT TGGCCTATAG CAGCTGTGGA AATTTATACC TCCCGGGTGC TGGAGGCTGT      120
TAATGGGACA GATGCTCGGT TAAAATGCAC TTTCTCCAGC TTTGCCCCCTG TGGGTGATGC      180
TCTAACAGTG ACCTGGAATT TTCGTCTCT AGACGGGGGA CTTGAGCAGT TTGTATTCTA      240
CTACCACATA GATCCCTTCC AACCCATGAG TGGGCGGTTT AAGGACCGGG TGTCTTGGGA      300
TGGGAATCCT GAGCGGTACG ATGCCTCCAT CTTTCTCTGG AAAGTGCAGT CAACCTCGAG      360

```

## (2) INFORMATION FOR SEQ ID NO:664:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:664:

```

GAATTCGGCC TTCATGGCCT ACCCTGTGAA AGTGGTGCCT GACTGTCTGA GGAGGGACGT      60
GGGCTAGAGA GTTCTCCCTG GGCTCAGGAA GGATAGCTTG GTTGGTAAGG GAATGCAGTG      120
TGGATGACAC TGAGGCTGCC AGAGGTCTTG GGTGGGCTGC TCCTAGGTGG CTTGATGAAA      180
ATGGGAGGAC CAGAAGAATT GGAAGTTGCA GCCAACTGAT GGCTGCTACT GAAGATTCTT      240
GACAGGAAAT AGAAAATAGG ATGTAAGACC CTCCTCTCCT CCTTCTGGCT CCCAATATTT      300
TCTGGTGATT CCCATTGGTG GATGCTAACA GGAAGTCACC TGGCAAGGGA GCTTGAGACA      360
TGTAAGTTGA GAGCTCGAG                                     379

```

## (2) INFORMATION FOR SEQ ID NO:665:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:665:

```

GAATTCGGCC TTCATGGCCT AATCACACAC CAACAAAACA CATTATTTT GTAATTTATT      60
TTCTCCTGAT ATTTATGCTA GAAAAGTCCA TTTGTATTTC TTTTACTATG GCATGTTTTT      120
ATAGGTTCTG TCTTATTTT ATTAAGTTCA TGTTTTTACT CTTTATTATC AGGAGTTCCT      180
ACCATATTTT ATNGCAAGC CTCGAG                                     206

```

## (2) INFORMATION FOR SEQ ID NO:666:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 469 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:666:

```

GCCGATGAGG ACCAAGATNA AAACAGTGCT CAAAAGTCGT GGCCGCCAC CTACAGANCC      60
GCTGCCCCGAC GGGTGGATCA TGACATTCCA TAACTCTGGA GTCCCGGTGT ACCTACACAG      120

```

AGAGTCTCGG	GTGGTCACCT	GGTCCAGGCC	ATACTTCTTG	GGAACGGGAA	GCATACGGAA	180
ACACGACCCCT	CCTCTGAGTA	GCATCCCTTG	TCTGCATTAT	AAGAAAATGA	AGGACAACGA	240
GGAACGGGAG	CAAAGCAGTG	ACCTCACCCC	TAGTGGGGAT	GTGTCCCCCG	TCAAGCCCCT	300
GAGCCGATCT	GCAGAGCTGG	AGTTTCCCCT	GGATGAGCCT	GACTCTATGG	GTGCTGACCC	360
GGGGCCCCCG	GACGAGAAAG	ACCCACTAGG	GGCTGAGGCA	GCCCCTGGGG	CCCTGGGGCA	420
GGTGAAGGCC	AAAGTCGAGG	TGTGCAAAGA	TGAATCCGTT	GATCTCGAG		469

## (2) INFORMATION FOR SEQ ID NO:667:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:667:

GAATTCGGCC	TTCATGGCCT	ACACATACAA	CAAACCGAAG	CTTCCGAAC	CCGAAGAGGA	60
ACTTCTCCAG	CAATTAAAC	GGGAGGAGGT	GTCCCAACA	GGGAGTTTCA	GTGCCCCACTA	120
CTTGTCGATG	TTTCTCTTAA	CTGCTGCCTG	CTTATTTTTC	CTAATACTGG	GACTGACTTA	180
CCTAGGAATG	AGAGGGACAG	GAGTATCTGA	GGATGGAGAA	CTCAGCATAG	AAAACCCCTT	240
TGGTGAAACA	TTTGAAAAA	TACAAGAAAG	TGAAAAAACT	CTTATGATGA	ACACATTATA	300
TAAGCTTCAT	GATCGATTAA	CACAGCTCGA	G			331

## (2) INFORMATION FOR SEQ ID NO:668:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:668:

GAATTCGGCC	TTCATGGCCT	AGGACCCAAA	GTCCGCGTGG	AACCGCGATA	GGGATCTGTC	60
AGGGCCCGCG	GCCGGGTCCA	GCTTGGTGGT	TGCGGTAGTG	AGAGGCCTCC	GCTGGTTGCC	120
AGGCTTGCTC	TAGAGGTGGA	GCACAGTGAA	AGAATTCAAG	ATGCCACCTA	ATATAAACTG	180
GAAAGAAATA	ATGAAAGTTG	ACCCAGATGA	CCTGCCCCGT	CAAGAAGAAC	TGGCAGATAA	240
TTTATTGATT	TCCTTATCCA	AGGTGGAAGT	AAATGAGCTA	AAAAGTGAAA	AGCAAGAAAA	300
TGTGATACAC	CTTTTCAGAA	TTACTCAGTC	ACTAATGAAG	ATGAAAGCTC	AAGAAGTGGA	360
GCTGGCTTTG	GAAGAAGTAG	AAAAAGCTGG	AGAAGAACAA	GCAAAATTG	AAAATCAATT	420
AAAAACTAAA	GTAATGAAAC	TGGAAAATGA	ACTGGAGATG	GCGCACTCGA	G	471

## (2) INFORMATION FOR SEQ ID NO:669:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:669:

```

GAATTCGGCC TTCATGGCCT AGAGAGGTTG CTCATTCGTC AGAGCGTGCT GCCCACCCTC      60
CACCCCTGCA TGGCAGAAAC TGTGCAGGGG ACGAGGCCAA GGAATCAGGA GACCCAGAGG      120
CAGGGGTGGC CCGGAGACGG TGAAGAAACC AAGACGCAGA GAGGCCAAGC CCCTTGCCTT      180
GGGTACACA GCCAAAGGAG GCAGAGCCAG AACTCACAAC CAGATCCAGA GGCAACAGGG      240
ACATGGCCAC CTGGGACGAA AAGGCAGTCA CCCGCAGGGC CAAGGTGGCT CCCGCTGAGA      300
GGATGAGCAA GTTCTTAAGG CACTTCACGG TCGTGGGAGA CGACTACCAT GCCTGGAACA      360
TCAACTACAA GAAACGGGAG TATCTCGAG                                     389

```

## (2) INFORMATION FOR SEQ ID NO:670:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:670:

```

GAATTCGGCC TTCATGGCCT AGTGTACAA AATATAGAAA GAAAAGAACA AACAAAAAAA      60
GAGACAAAGG TGAATACCT TTTTGAAATA AAAGAGAGCT AGCAATGCAG TACATGGTCC      120
TTGCCCTATT ACTATCCATC CTCATCCTAG CAATAATCCC CATCCTCCAT ATATCCATAC      180
AACAAAGCAT AATATTTGCG CCACTCGAG                                     209

```

## (2) INFORMATION FOR SEQ ID NO:671:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:671:

```

GAGTTCATTC AAGATATTTT TCACTTGCTG TTCAGGAGCT TTGATGTGCG TCACCATTC      60
TGGCATGTTC ACGCTGTTCC TGTGCAGGTA TTTCAGGAAG ACGTCTGCAT TCCTCCGAGC      120
AAGGGTGCAA GCCTTCAGGA ATGCCTCCTT CTGCTCCAGG TGCTTGCTGA TCATGGGCGT      180
CACGTGGTCC GTCTCAGAGT TTGGGCCAG CTTATCCGCC CCGCCACACC AGTCTTCTTC      240
TCTCTGTAC TCCCTGTTCC AGGCTCTCGA G                                     271

```

## (2) INFORMATION FOR SEQ ID NO:672:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:672:

```

GAATTCGGCC TTCATGGCCT AAGATAAATT TGACAAAGTT AACTGAAATT TATCTGGTCC      60
ATTTTATTCA TGCTACTAAG ATGGGAATCT TTAACACAA GGGTCAGCAA GCTTTGGCCC      120
ATGGATTGGC CACCTGTAC GTAAATAAAG TTTCTTTGAA ACAAGCCTAC ACTCATTTCAT      180
TTATGTTTTG TCTGTGGTTG CTTCCACAA CTGCAGAGTT GTATGGCTTG CAACTCTAAA      240

```

AACATTACT	ATTTGGCCCT	CTAAGAAAAA	GTTAAGACAC	CTAGTCTAAT	GGCCTTTTGG	300
GAAAAAACAA	ATCACTAACT	CATAATCATT	TATATCCATT	ATTTTCTGCA	TAAATGTAAT	360
GCTATTGTAC	AGGGTACTCG	AG				382

## (2) INFORMATION FOR SEQ ID NO:673:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:673:

GAATTCGGCC	TTCATGCCTA	CCAAATTTGT	CTAAGCACTG	GCCAGTCTGT	TGTGGGCATT	60
GTTTTCTACA	ACCAATCTG	GGTTTTTTC	TTCTTCTTT	AAACATAGAG	GTACCACCAC	120
AAGGGATGCC	CTACTCTCTC	GCAGCTCTTG	AAAGCATCTG	TTTGAGGGAA	AGGTCTCTGG	180
GCAAGCAAGT	GTTATTTGG	ATTGCTTGCT	TCCCTTTTTC	CACCTGGGAC	ATTGCAATCA	240
TAAAATAACA	GTAAATTCCA	AACCTCAAAA	ACTATTATGG	CCTGAGCACA	GCTGAAATCT	300
AGCAGAGTTT	AACCTCTCTG	CCTCCATGTC	TGTCACCTAT	AATTCAGGTT	CTGCTGTTGG	360
CTTCAGAACA	TGAGCAGAAG	AATCGTTTTA	TGCTAGTTAT	TGCATTTCATG	GTTGAAACTC	420
AACTTAGGGA	AAGGGTTCCA	ATGTATTAAG	CAATGGGCTG	CTTCTCCCA	ATCCTCCCTA	480
ACAATTGTTT	GTGTGGACTT	CTCATCTAAA	AGGTTAGTGA	CTCGAG		526

## (2) INFORMATION FOR SEQ ID NO:674:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:674:

GAATTGCTTC	TCAATTTACC	CGAGATTTCA	TTCGAGATTC	AGGTGTTGTC	TCACTTATTG	60
AAACCTTGCT	TAATTATCCA	TCCTCTAGAG	TTAGGACAAG	TTTTTTGGAA	AATATGATTC	120
ACTGGCTCGA	G					131

## (2) INFORMATION FOR SEQ ID NO:675:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:675:

GAATTCGGCC	TTCATGGCCT	ACCTAATCTT	CCTTTTCTTT	TTAGCATTTT	TGGGCTTTTC	60
AAAGCAATCT	CCCCAAAAA	AGAATCATTT	GGTTTTGGAA	AAGAAAACAG	AATCAGCAAC	120
TTTTCGGGTG	TGTGGTGAAA	ATGTCACGTG	TGTGGAATAC	GCTATCTCCT	GGCTACAAGA	180
CCTGATTGAA	AAAGAACAGT	GTCCTTACAC	CAGTGAAGAT	GAGTGCATCA	AAGACTTTGA	240
TGAAAAGGAG	TATCAGGAGT	TGAATGAGCT	GCAGAAGAAG	TTAAATATTA	ACATTTCCCT	300

GGACCATAAG AGACCTTTGA TTAAGGTTTT GGGAATTAAC AGAGGACTCG AG

352

(2) INFORMATION FOR SEQ ID NO:676:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:676:

GAATTCGGCC TTCATGGCCT AAACCCATAA AACAGGAATT CCTTATAATC CTAGAGGACA	60
AGGCATTATA GAATGGGCAC ATCAAACATT ACAACGAATG TTGAAAAGAC AAAAAGGGGG	120
TATAGGAGGC CAACTACCAC CTCAATCAAA ACTACATTTA GCCTTATTTA CTTTAAAATT	180
TTTGACTCCT GGTACGGATG GTAAGACTCC AGCAGAAAGA CATTGGCAAG TGTTAGAGGA	240
AAAGACTCGA G	251

(2) INFORMATION FOR SEQ ID NO:677:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:677:

GGGCATTGTC AGTTTTCTTC CCTGCTGCAT GTAATGTCTC AGAATCAACA TTCTTTTAAA	60
ATCTAGACTA TATTTTGAGG CAATGAATTA CTTATATTCA ACTTAGGCTT GTTTTGACAT	120
TCAGTAGAAC TTAAAGTTCA ATCTAAAGGC TTCAGTCCAC ATTTTTTTAT ACGTTGTATT	180
TTAAAAACGT TTGAAAGGAG TCTTACACCT GTATCATGAA AACTGAATCC TTTTGAAATA	240
CCACTATATG AAGAGAGAGA TGAAATTTAG TGAACAGAAT TGAAAAGGTG CTCATAATTT	300
CACTATGCAA ACTTACCCCA GTCAACTCGA G	331

(2) INFORMATION FOR SEQ ID NO:678:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:678:

GAATTGAACA ATGCTGACAG GCTGGTANTC CTGCCCTGAA GCAACTCACA GACTCATAGT	60
TATAGAACAT CTTTATCTTT AGTTAATCCA TNGCACAGCA TTGGCCAAGG GTCAATACCT	120
TGTAATAAGC ATGTGTGTAT TGGTCAGGGT TCTACAGAGA GACAGATCAA TAGGAGCTAT	180
CGATAGATAT AGACATATGA GAGGGGGTTT GTTAGGGGAA TTAGCTCACT TGATTACAGA	240
GGTTGAGAAG TCGTCTCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:679:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 336 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:679:

```
GAATTCGGCC TTCATGGCCT AGCAGCCCGA GGCCTTGAGG CCACTGCCTC CCCAGGGCTC    60
CTGAAGCCAA AGAATGGAAG TGGTGAGCTG AGCTACGGAG AAGTGATGGG TCCCTTGAGAG    120
AAGCCTGGTG GAAGGCACAA ATGCCGCTTC TGTGCCAAG TATTTGGCAG TGACAGTGCC    180
CTGCAGATCC ACCTTCGTTT CCACACGGGT GAGAGGCCCT ATAAGTGCAA TGTCTGTGGA    240
AACCGTTTTA CCACCCGTGG CAACCTCAA GTGCATTTCC ACCGGCATCG TGAGAAAGTAC    300
CCACATGTGC AGATGAACCC ACACCCAGTA CTCGAG                                336
```

(2) INFORMATION FOR SEQ ID NO:680:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 389 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:680:

```
GAATTCGGCC TTCATGGCCT AAATTAAAGA TGATTTTTTT AATGTGAATA AAGTTATGTT    60
CTGATAGTTT GTACAGAAAA AATAAAATGG ATGCCCATGT TTTATTGCTA TTACTAAATG    120
TCAAGATTGT ATGCTATTAT GTCTTGTAAT TTTCTTTTGT TGGTGTAAT ATGGAAATGC    180
CACATTGGTT AAGTGCCATC ATTTGTAATG CAATGTGTCA CTTGAAAAGA GATTTGAAGA    240
AACTGACAAC TTCAAAAACA AATGAGAAGC CCAAGGAACT GTGAGCAATT AAAAGCAAAC    300
CGCGACACCC TTTGTCTCCA CCACACATAG TGTACTTTGG AAGCACAACG TCCAGGCTGG    360
TACCGCAGCG CCATGCCCCAT TCCTCGCCG                                389
```

(2) INFORMATION FOR SEQ ID NO:681:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 400 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:681:

```
GATTTCTCTG TTAGCTTCTG CAGTGAACCA CCTCAAAGCC AATGTTAAGT CAGCTGCAGA    60
CTTGATTAGC CTGCCTACCA CTGTAGAGGG ACTTCAGAAG AGTGTAGCTT CCATTGGCAA    120
TACTTTAAAC AGCGTCCATC TTGCTGTGGA AGCACTACAG AAAACTGTGG ATGAACACAA    180
GAAAACGATG GAATTACTGC AGAGTGATAT GAATCAGCAC TTCTTGAAGG AGACTCCTGG    240
AAGCAACCAG ATCATTCCTG CACCTTCAGC CACATCAGAA CTTGACAATA AAACCCACAG    300
TGAGAATTTC AAACAGGATA TCCTGTACCT TCACAACCTT TTAGAGGAGG TAAACAGTGC    360
CCTAGTGGGG TACCAGAGAC AGAATGATCT TAAACTCGAG                                400
```

(2) INFORMATION FOR SEQ ID NO:682:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 311 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:682:

```

GGAGATCGAA AATTGAAACT CTCAAAGAGA CAACAAATAG CATGGTAGAA TCAATTAAAC      60
ACTGCATTGT GTTGCTGCAG ATTGCCAAAA GTACTATTAA TCCCGTAGAT GCAATATATC      120
AACCTAGTCC TTTGGAACCT GTGATCAGCA CAATGCCTTC CCAGACTGTG TTACCTCCAG      180
AACCTGTTCA GTTGTGTAAG TCAGAGCAGC GTCCATCTTC CCTACCAGTT GGACCTGTGT      240
TGGCTACCTT GGGACATCAT CAGACTCCTA CACCAATAG TACAGGCAGT GGCCATTCCAC      300
CACAACTCGA G

```

(2) INFORMATION FOR SEQ ID NO:683:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 308 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:683:

```

GTGAGGGGTT CCGTGA CTGA GGTCTGAGC TGCTGTGAT GTGCTATACC TCCTTCAATT      60
CTCAGCTCTC AAAGGGGAAA ACAACTGCAG AGGATGGGAA ATGCTATACT GCCATGCCTG      120
GAAACACCCA CAGGAAAATT ACCAGTTTTC AGCTTGCTCA ACTGCAAGAA AACTGAAGG      180
AGACAGAAGC AGCCATGGAA AAATTAATCA ACAGAGTGGG ACCTAATGGT GAGAGAGCAC      240
AGACTGTGAC TTCTGACCAA GAGAAACGGT TGCTACATCA GCTCCGAGAA ATCACCAGAG      300
GTCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:684:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 448 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:684:

```

GCTCCGGACA ATGAAACATA ACCAATACTA CCAATCAATA CTCATCATTATAATCATAA      60
TGGCTATAGC AATAAACTA GGAATGGCCC CCTTTCCTT CTGAGTCCCA GAGGTTACCC      120
AAGGCACCCC TCTGACATCC GGCCTGCTTC TTCTCACATG ACAAACTA GCCCCATCT      180
CAATCATATA CCAATCTCT CCCTCACTAA ACGTAAGCCT TCTCCTCACT CTCTCAATCT      240
TATCCATCAT AGCAGGCAGT TGAGGTGGAT TAAACCAAAC CCAGCTACGC AAAATCTTAG      300
CATACTCTC AATTACCCAC ATAGGATGAA TAATAGCACT TCTACCGTAC AACCTGACA      360
TAACCATTCT TAATTAACT ATTTATATTA TCCTAACTAC TACCGCATTC CTACTACTCA      420
ACTTAACTC CAGCACCACG GGCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:685:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 312 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:685:

```
GTTGACAAAC AAGCTCAAGC TCGGATAAA ATGAAGGAGC AGGAAGACCT GGCCAAGGTG      60
GTATCTAAAG AAGAATCAAT TGTTCATCA TTACGATTAG CCTATAAGGA TCTTGAAATT      120
CAAATGAAGA AAGACGAAAA GATGAACATT AGTGGCAAAA AAAATGTTGA CTCAGACAGA      180
CTCGGCATGG GATTGGAAA TTGCAGAAAT GTTATTTTAC ATTCAGTGAC TTCAGATATG      240
CAGACCATAG AGCAGGAATC ACCCATTATG GCAAAACCAA GAAAAAGTA TAATGATGAC      300
AGTGAACCTG AG                                     312
```

(2) INFORMATION FOR SEQ ID NO:686:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 264 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:686:

```
GTAATGGCAC AATGGATTCA AATGGGACAT TTGTTAATGT AACATGAGC ACATTTAACT      60
GGAAGGATTA CATTGGAGAT GACAGTCACT TTTATGTTTT GGATGGGCAA AAAGACCCTT      120
TACTCTGTGG AAATGGCTCA GATGCAGGCC AGTGTCCAGA AGGATACATC TGTGTGAAGG      180
CTGGTCGAAA CCCCAACTAT GGCTACACAA GCTTGACAC CTTTAGCTGG GCTTTCCTGT      240
CTCTATTTCT ACTCATTCTT CGAG                                     264
```

(2) INFORMATION FOR SEQ ID NO:687:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 277 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:687:

```
GGGAACAGCA GTTCCTATGG CTTTTTTTTT TTTTCTCTG TGTATGAGCA ATTCGACTCA      60
GTGGGATGAT ATTTTCTTTT ATAACCTATT AATGTTTGGC ATACCGTGTA CTCAAATATT      120
CAATGTCAGC TGTCAGCTAC CATTGGGATC CATCCACAG ACCATCAAAA TGTACTTTTG      180
GGCTGAATTA GTCCTATGCC AAGACTTGTG GGTGGATCCA GCAGCAGTTG GGAACACGTT      240
GCCAGGCCTG GTGTATGTGC TCACGAACAC ACTCGAG                                     277
```

(2) INFORMATION FOR SEQ ID NO:688:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 393 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:688:

GAATTCGGCC	TTCATGGCCT	AAATAGTTTA	GTTCTCTGGT	GCAATTTGAA	GTATATCTTA	60
TAGTCACTTT	TAGTAATGTG	TGTTACTTCC	CTGTAAGGAA	TAGCAATGTT	ATACTTCTCC	120
TTTTGCAGTG	AAGAAATTGA	GATGTAGAAA	GGAAGAGACC	TGCCCCAAGT	CAAAGAGCAA	180
CGCAGTGGAA	AGCCTGAGAT	TAGACTTGTG	GTCTTTTAGA	TTTTTCATCT	GTTGTTCACC	240
ACTGAGGAGC	CAGCTTTCCTG	TTTGCTGGAG	ACAGTTCAGC	CTAATGGAAT	TTTCTCTGCC	300
AGATGTCCAC	ATTGTGTTAG	GTGATGATTG	TAACCATCCT	CTAATACCCA	TTCTCCTCCA	360
AAGTGGCCCT	TTAGTTCCCC	ACCAGAACTC	GAG			393

(2) INFORMATION FOR SEQ ID NO:689:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 477 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:689:

GAATTCGGCC	TTCATGGCCT	ACTGTTCTGC	TCCTCCCAGA	CAGAGCCTTT	CCCTCAGCCC	60
AGGGGGTCAG	GGGGTGAGGG	AAAGGCTCTG	TCTGGGAGGA	GCAGAACAGC	AGAAGAGAGG	120
AGGAGGCAGG	GAGTTACAGG	AACCTGGGGT	ACCAGGCTGC	TGGGAAGATG	CAGATTATGA	180
CAGAGCTTGC	ACGATGCTGG	CACCCCATGC	CAACCACTCT	ACGTGGCTTT	CCTCTTCGGA	240
GAGGTGGTGG	GCTCCCTTCT	TCACTGTGCC	CTCCCTCCTC	TGGCCACTAG	GGGTGGGAAA	300
TACGAGTGAG	AATCCTTCCA	GATTTACTTC	CGCCAATCCA	GAGGTACAGG	CTTTTAGGCA	360
AGGGGCAGAG	AAC TGCCCAA	TTTGCTGCTT	CATGGCCTAG	GGGTGGGGTT	CCTTAGGAGC	420
TGAAAAGTTG	AACAAGGTGT	GTGAGCAGGT	GGCTTGTTC	TTGGTTTCAA	GCTCGAG	477

(2) INFORMATION FOR SEQ ID NO:690:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 598 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:690:

GAATTCGGCC	ATCATGGGCT	AAGACGTGGT	ANTGACATGC	CTGTAGACCC	AAGTATTTGG	60
GAGGCTGAGG	TGAGAGGTTT	GCTTGAGCCC	TGGAAGTCGA	GGCTTCAGTG	AGGCAAGATC	120
ACACCACTGC	ACTCCAGCCT	GGGAGAGCAA	GACCCTGTCT	CCAAAACCAA	AAAAAAAGGG	180
AAAAAAGTAA	ATGTTATAGA	TACTTGCTAA	GGGCTTTGTA	TATACTTATT	ATTGTTATTT	240
CTCAGCACGT	ATGTAGCAGA	TGAGGAAATG	AAGGCTAAAG	GTCAATATATN	TACAAAGTGG	300
GGAGGTCAGA	CTTTGAACCC	ACAACCTGAC	TGTGGAGCCA	CTTCAGTATA	CTCTCTCCCC	360
ATAAGAAAGT	TCCAATAGAA	AAAAATGCT	ACTTAAGTAG	GGAAATCACA	AAATAAGTGC	420
CAATGAACAA	TAAATGTTCA	ACCTCACTAC	AGTTAAAATG	TATATTAAAG	CAAGAGTTGA	480
GATGACACTT	TTCTTATAA	AACAGACAGG	GATTCAGGGA	CATTGGGACT	CTAATGCTGC	540
TGGTAAGACA	TGAATAAATA	CATACCATCT	CTGGCAATCA	ATACCAGAAG	ATCTCGAG	598

(2) INFORMATION FOR SEQ ID NO:691:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 406 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:691:

```
GAATTCGGCC TTCATGGCCT AGTTCTCCCT TCCATTCTGC CCTTGATCTT TTGCAGTCAT    60
TGTATACAGC AGATTCTAGA AAGTGTTAAT CATTGTCACC TAAATGGCAT AGTTCACAGG    120
GACCTGAAGG TCAGTATATG GAGTCCATAA ATCTGAATCA AAGCAGTTTT ATTTTITTTT    180
CTGGGGAAG GGCAGAGGGT GGGTATTTAA AATGGTTCCC TTGCCTTTCC CAACTTGTTT    240
CTAAAATGAG TAAATGATGA AATGATAATG CATGATGCCT CTTCCAGTTT GCTCATCTAC    300
AGGCTAAATA TACATCATAG CAAAAGGGA AGAATACTAA AGAATACAAC CTGCTAAGTT    360
TCCAAGCAGT AACTACCTA CAAAAGGGA TTGAGGATCC CTCGAG    406
```

(2) INFORMATION FOR SEQ ID NO:692:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 263 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:692:

```
GTCCTGGAAG AATGTGTCCA GCAACCCAAA AACTAATAGA AGAGTCACAG AGAAAAATGA    60
ACGCTTTTAT TGAAGGTAGA CGCATCGAAT TTGCAGAAC AATAAATAAA ATGGAGGCTA    120
GGCCTAGAAG ACAATCAATG AAGGAAAAAG AGCATCAGGT GGTGCGTAAT GAAGAACAGA    180
AGGCGGAACA AGAAGAGGGT AAGGTGGCTC AGCGAGAGGA AGAGTTGGAG GAGACAGGTA    240
ATCAGCACAA TGATAGACTC GAG    263
```

(2) INFORMATION FOR SEQ ID NO:693:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 404 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:693:

```
GCCGCCGAAG AAGCATCGTT AAAGTCTCTC TTCACCTGTC CGTCATGTCT AAGTCAGAGT    60
CTCCTAAAGA GCCCGAACAG CTGAGGAAGC TCTTCATTGG AGGGTTGAGC TTTGAAACAA    120
CTGATGAGAG CCTGAGGAGC CATTTTGAGC AATGGGGAAC GCTCACGGAC TGTGTGGTAA    180
TGAGAGATCC AAACACCAAG CGCTCCAGGG GCTTTGGGTT TGTCACATAT GCCACTGTGG    240
AGGAGGTGGA TGCAGCTATG AATGCAAGGC CACACAAGGT GGATGGAAGA GTTGTGGAAC    300
CAAAGAGAGC TGTCTCCAGA GAAGATTCTC AAAGACCAGG TGCCCACTTA ACTGTGAAAA    360
AGATATTTGT TGGTGGCATT AAAGAAGACA CTGAAGTCCT CGAG    404
```

(2) INFORMATION FOR SEQ ID NO:694:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:694:

```
GAATTCGGCC TTCATGGCC TACTGGATGG CTTTTATCT TTTGCTTTC TTTTATGGCA    60
GATGCCTTTC CATCGGCATC CCAGCTGTGG CTGGGGACCT TTTGGGAAGT GTGTTTGGCT    120
CACTCCGAGA GAACGAGGTC TCAAGAGGAA GTGTGTCTGG CTTGCAAAGA TGTCCCTGGG    180
CCTGGACAGG ACCCCGCTGT GTTCTGCAGC CCTCGACGCA GTGGGTGAGT GAGGCCTTCC    240
TCTCCTGCTG GCTGCCCTGG AGGATTTCAG CATGTCCCAG GATTGCTCC ACCCTCGAG    299
```

(2) INFORMATION FOR SEQ ID NO:695:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:695:

```
GAATTCGGCC TTCATGGCCT ACCTGTTGAA AACTCTCCAA TGACTTCCCA CTCCATCATC    60
CTGTGGGATG GGTCCACCAT GCTGGACCAC AAGGCTCTGC ACAATGCGGC TCCCACCAGC    120
CTCTCCCCTT GGCCAGATT GCTTCCTCCT ACCCCTTTCT CTAGCTGCCA GGCCCCCAG    180
CCCCCGCATG GAGCCCTTCA GCAGCTCTGT GAGCTCCCTG CCTGTTGGCA GCCATCACAG    240
CAACGGGCTC TGGTGTGCCC CTGTATTATC CTGTATTATC GCCATTATCT GTAATGACAG    300
CCTGGCATAA TTTTATTTTC ACAATTGTA TAATTATATT CTATTGAGCT AAATGATCAT    360
TATAATCATT ATTAAATATT TATTAAAGCAC TTCTAGCTGT GCAAACATAA TAAGATGTGG    420
CCTCAGCTCT TAAATCTTT CTCCTAATT CCAACCCAAA TACTCGAG    468
```

(2) INFORMATION FOR SEQ ID NO:696:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:696:

```
GAATTCGGCC TTCATGGCCT ACAAGGGAAC ATGTAAACTA ACATAACCAA TTGTCAGTTC    60
TCCATGTATT CCTCAAAGA ATGTCAGAGT AAATGTATTA GAAATACAGT ATCCAGACTG    120
CTAGTCCTTG CCAGAGACAT TCTTACCTCT GCCCTGTGAT AATATTTTAT GCTTGACAGT    180
GAAAACAAGT GTGGCCCTT GCACCGGTTA GCTAGAAGTA CAGCCAGATT TCAAGCTAGT    240
GCAGTCACCT CTTCCGTCAT TCTTACAAA TCTGTGCAAC CTGGATCTTA GACTTCATCT    300
GAACTCGAG    309
```

(2) INFORMATION FOR SEQ ID NO:697:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:697:

GAATTCGGCC	TTCATGGCCT	ACACGGATCC	GTGTGAAGAC	CTACACAGAT	GAGCTGACGC	60
CCATTGAGTC	TGCTGTCTCT	GTGTTCAAGG	CAGCCAACCTG	GTATGAAAGG	GAGATCTGGG	120
ACATGTTTGG	AGTCTTCTTT	GCTAACCACC	CTGATCTAAG	AAGGATCCTG	ACAGATTATG	180
GCTTCGAGGG	ACATCCTTTC	CGGAAAGACT	TTCCTCTATC	TGGCTATGTT	GAGTTACGTT	240
ATGATGATGA	AGTGAAGCGG	GTGGTGGCAG	AGCCGGTGGA	GTTGGCCCAA	GAGTTCCGCA	300
AATTGACCT	GAACAGCCCC	TGGGAGGCTT	TCCAGTCTA	TCGCCAACCC	CCGGAGAGTC	360
TCAAGCTTGA	AGCCGGAGAC	AAGAAGCCTG	ATGCCAAGTA	GCTCCAGGGA	ACGCATGTGG	420
ATCCTAGACA	GCGCCTTATC	TATGATTGAG	TGCCATTCT	CGAG		464

(2) INFORMATION FOR SEQ ID NO:698:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 412 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:698:

GAATTCGGCC	TTCATGGCCT	ACGGTGGTGA	ACGAGTCTCC	AGCACCATGT	CTGGTTTGTC	60
TGGCCCAACA	GCCCGGCGCG	GCCCTTTTCC	GTTAGCGTTG	CTGCTTTTGT	TCCTGCTCGG	120
CCCCAGATTG	GTCCTTGCCA	TCTCCTTCCA	TCTGCCATT	AACTCTCGCA	AGTGCCTCCG	180
TGAGGAGATT	CACAAGGACC	TGCTAGTGAC	TGGCGCGTAC	GAGATCTCCG	ACCAGTCTGG	240
GGGCGTGGC	GGCCTGCGCA	GCCACCTCAA	GATCACAGAT	TCTGCTGGCC	ATATTCTCTA	300
CTCCAAAGAG	GATGCAACCA	AGGGGAAATT	TGCCTTTACC	ACTGAAGATT	ATGACATGTT	360
TGAAGTGTGT	TTTGAGAGCA	AGGGAACAGG	GCGGATACCT	GACCAACTCG	AG	412

(2) INFORMATION FOR SEQ ID NO:699:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 139 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:699:

CAGCTCCTGT	GACATTTGAA	GTTTCTTTTA	AAGGGGTTTT	TCTTAATCAA	AGTTTTACAT	60
TTGGTAGCAT	AAGTAGTTCT	TTATGCTTCA	CAGGACATTG	TCTTCAGAGT	AATCTCTCTG	120
CTAAAATGGT	ACATGTGGG					139

(2) INFORMATION FOR SEQ ID NO:700:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 406 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:700:

GAATTCGGCC	TTCATGGCCT	ATGAAATGAT	ACCTATGGAG	TGTGATTCAT	TTGCAGTGA	60
CCAAAATGAA	TCTGAAGTTG	AACCATCTGT	AAATGCTGAT	CTTAAACAAA	TGAATGAAAA	120
TTCTGTGACA	CACTGTTCTG	AAAATAATAT	GCCGTCTTCT	GATCTTGGCG	ATGAAAAGGT	180
TGAAACTGTT	TCTCAACCAT	CTGAAAGCCC	AAAAGATACC	ATAGATAAAA	CCAAAAAGCC	240
TCGTACTCGA	AGATCTAGAT	TTCATTCTCC	ATCTACAAC	TGGTCACCCA	ACAAAGACAC	300
TCCACAAGAA	AAGAAGCGGC	CCCAGTCTCC	ATCTCCAGA	AGAGAAACTG	GGAAAGAAAG	360
CAGGAAGTCT	CAATCACCAT	CTCCTAAGAA	TGAGTCAAAC	CTCGAG		406

(2) INFORMATION FOR SEQ ID NO:701:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 511 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:701:

GGCAAGATGG	TGTTGCAGAC	CCAGGTCTTC	ATTCTCTGT	TGCTCTGGAT	CTCTGGTGCC	60
TACGGGGACA	TCGTGATGAC	CCAGTCTCCA	NACTCCCTGG	CTGTGTCTCT	GGGCGAGAGG	120
GCCACCATCA	ACTGCAAGTC	CAGCCAGAGT	GTTTGTACA	GCTCCAACAA	TAAGAACTAC	180
TTAGCTTGGT	ACCAGCAGAA	ACCAGGACAG	CCTCCTAAAC	TGCTCATTTA	CTGGGCATCT	240
ACCCGGGAGT	CCGGGTCCC	TGACCGATT	AGTGGCAGCG	GGTCTGGGAC	AGATTTCACT	300
CTTCACCATC	AGCAGCCTGC	AGGCTGAAGA	TGTGGCAGTT	TATTACTGTC	AGCAGTATTA	360
TAGTAGTTGG	ACGTTCCGCC	AAGGGACCAA	GGTGAAATC	AAACGAACTG	TGGCTGCACC	420
ATCTGTCTTC	ATCTTCCCGC	CATCTGATGA	GCAGTTGAAA	TCTGGAAGT	CCTCTGTTGT	480
GTGCCTGCTG	AATAACTCCT	ATCCGCTCGA	G			511

(2) INFORMATION FOR SEQ ID NO:702:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:702:

GAATTCGGCC	TTCATGGCCT	AGGGATGGTC	TTAACAGGGA	ANAGAGAGGG	TGGGGGAGAA	60
AATGTTTTTT	TCTAAGATTT	TCCACAGATG	CTATAGTACT	ATTGACAAAC	TGGGTTAGAG	120
AAGGAGTGTA	CCGCTGTGCT	GTTGGCACGA	ACACCTTCAG	GGACTGGAGC	TGCTTTTATC	180
CTTGGAAGAG	TATTCCAGT	TGAAGCTGAA	AAGTACAGCA	CAGTGCAGCT	TTGGTTCATA	240
TTCAGTCATC	TCAGGAGAAC	TTCAGAAGAG	CTTGAGTAGG	CCAAATGTTG	AAGTTAAGTT	300
TTCCAATAAT	GTGACTTCTT	AAAAGTTTIA	TTAAAGGGGA	GGGGCAAATA	TTGGCAATTA	360
GTTGGCAGTG	GCCTGTTACG	GTTGGGATTG	GTGGGGTGGG	TTAGGTAAT	TGTTTAGTTT	420
ATGATTGCAG	ATAAACTCAT	GCCAGATATT	CTCGAG			456

(2) INFORMATION FOR SEQ ID NO:703:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 439 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:703:

GAATTCGGCC	TTCATGGCCT	AGTCCTTGC	TCTACTGTTG	AATGGAGGAG	GATTTTTTTT	60
TTTTCCCTC	NACACAGGGG	TTTCTTGGA	GCTCAAGTTT	GGATGACCCC	AGACAGTAAG	120
ATAATCTCAT	CATGGTAAAG	TTAATATGAA	ATATGTGGTC	TCCAAACAGC	CTCTCCAGA	180
GGCCAGGATC	AGCAGGTTTG	AGTGGATAAT	TGGCTTGTGG	TCATTTTCTC	ATAGGATTTT	240
TCTTTTAGTA	GTGAAACTG	TTTTTCAAAT	CAAATTTGGA	TGCCAACTAT	GTGGAACAGA	300
AGTGTGGCTG	CTCTGGTGGA	AGTGGCAATG	GTAGTCCTAG	AGTCTCCCTG	TCAGCCACAC	360
CCTTTGTCTC	CCCCTACCCA	AGGGACCCCTG	TGGCCTGGAA	CCGCAGTGTG	AAATGCTATA	420
TAGTGCAATG	AAGCTCGAG					439

## (2) INFORMATION FOR SEQ ID NO:704:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:704:

GAATTCGGCC	TTCATGGCCA	ACAGCTGAGA	TAACGAGGAA	ATATTCTGAA	ATGGATCCCA	60
AATATTTTCAT	CTTAATTTTG	TTTTGTGGAC	ACCTGAACAA	TACATTTTTT	TCAAAGACAG	120
AGACAATTAC	AACAGAGAAG	CAGTCACAGC	CTACCTTATT	CACATCATCA	ATGTCACAGG	180
TATTGGCTAA	TTCTCAAAAC	ACAACAGGGA	ATCCTTTGGG	TCAACCAACA	CAATTCAGCG	240
ACACTTTTTC	TGGACAATCA	ATATCACCTG	CCAAAGTCAC	TGCTGGACAA	CCAACACCAG	300
CTGTCTATAC	CTCTTCTGAA	AAACCAGAAG	CACATACTTC	TGCTGGACAA	CCACTTGCCT	360
ACAACACCAA	ACAACCAACA	CCAATAGCCA	ACACCTCCTC	CCAGCAAGCC	GTGTTACCT	420
CTGCCAGACT	ACTCGAG					437

## (2) INFORMATION FOR SEQ ID NO:705:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 403 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:705:

GAATTCGGCC	TTCATGGCCT	ACATTCACAT	GTTCCCAATC	ACTTCCCTCA	CACACATATG	60
CTCACTGATT	TACACAGCCA	TTCGCACTTA	TACATACTCG	NTCACATTCA	CACAGGGTCA	120
CCCATTACAC	CACACTCGAC	ACATTTACCC	TCACATTAC	CCACTCACCA	TTCCCACTCA	180
CCAGTTCACA	TGCACTCACC	CAAGCTCACA	CTTGACCACG	GACACACCCT	CAAACATAGG	240
TGCTTACACA	CAAGCCNACA	CACACTCACC	TAGCCATTCA	TACTCACGTG	CACCTATACC	300
TTCACACACA	TCCTCACATA	CCCACACAGC	TCTACACATA	CCCCTTTTCT	TACACATTCA	360
CACACATACC	TATAGACACA	TTCAAACACA	CCCNACGCTC	GAG		403



## (2) INFORMATION FOR SEQ ID NO:706:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:706:

```

GAATTCGGCC TTCATGGCCT ACTCAGAATC ATAATGAAGT CCAGTCTACC ACACCACCCT      60
TCACTACTGT TGATTACAG AAAGACTGTA GAAATTTTCC AGTTCCACAG AAGGATGGTA      120
GTGCTTTGGA GGATTCTAGC ACTTCAGGGG CATCCTGTTC CAAGTCAAGA CCACATTTAG      180
CTGGGACACA TACTTCTCTT AGACTTCCGC AGGAAGGAAA AGGAACCTGT ATTCTTGTAG      240
GTGGTCATGA AATCACTTCT GGATTAGAAG TAATTCTTTC CCTAAGAGCA ATTCATGGGT      300
TGCAAGTAGA AGTTTGTCTT CTTAATGGCT GTGATTACAT CGTGACTAAT CGCATGGTGG      360
TGGAAAGGAG GTCTCAATCT GAGATGTTAA ATAGTGTCAA TAAGAACAAG TTCATTGAGC      420
AGATCCAGCA CCTGCAGAGT ATGTTTGAAA GAATATGTGT GATTGTGGAA AAGGACAGAG      480
AAAAACAGG CGAACTCGA G                                     501

```

## (2) INFORMATION FOR SEQ ID NO:707:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 403 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:707:

```

GAATTCGGCC TTCATGGCCT AGGACAACCTG TGATATTTCA GTTCCTGATT GTAAATACCT      60
CCTAAGCCTG AAGCTTCTGT TACTAGCCAT TGTGAGCTTC AGTTTCTTCA TCTGCAAAAT      120
GGGCATAATA CAATCTATTC TTGCCACATC AAGGGATTGT TATTCCTTTA AAAAAAACCC      180
AATACCAAAG AAGCCTACAA TGTGCGCCTT AGCCAAAATT CTGTTGATT CAACGTTGTT      240
TTATTCACCT CTATCGGGGA GCCATGGAAA AGAAAATCAA GACATACACA CAACACAGAA      300
CATTGCAGAA GTTTTAAANA CAATGGAAAA TAAACCTATT TCTTTGAAA GTGAAGCAA      360
CTTAACTCA GATAAAGNAA ATATAACCAC CTCAAATCTC GAG                                     403

```

## (2) INFORMATION FOR SEQ ID NO:708:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:708:

```

GAATTCGGCC TTCATGGCCT AGGTGGGGGG CCTTCTGCAC AAAAAGGGAG TAAGTCCAGG      60
CTATACCTGT GCTCAAATAA CAGCGCCATT GATGTCTTGG CANACTTGGG ANGACATTCC      120
TTCTGCAAGA CTTGNTGAGC ATATTTCTGA GCTCTCTTTA CATGGTCAGG GTCCACATAA      180
TGCATTTTTT TCATGTCACA TTCTTCAGTA GTATAATTTA ACTTGAGGAT ATAAAGGATC      240
CACACTCCAA ACACAAGCAA TGTACATTG AGGATGTCTT TTAATNACAA GCTGGGCCTT      300

```

CTCATCTTGC TTTGAGCTCG GGTGTACCAT TGCAGGGAGG GCCTCCAG

348

## (2) INFORMATION FOR SEQ ID NO:709:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:709:

GAATTCGGCC TTCATGGCCT ACAGAATTGG CAGCACAAAG AAAACGCCCT CTCCTGACTT	60
GTATTGTGGC AGTCTGAACG CCCCCAGAAA ATTGTGCCAA AGAGTTTAGA AAAATAAATA	120
TACAATAAAA GTAAACACAT ACACACAAAA CAGCAACTT CAGGTAAC TA TTTGGATTG	180
CAAACAGGAT AATTAAATGT TCAAACAATC TGATAAAATA ACCATTGGA AACTGCTTG	240
CCTTCTGTTC TTTTATTTGA TTGACTACAA TGCGGTATTG GTCTCTTGCT GCACTTCAAA	300
AGCAACCAAC AAAACCCTCG AG	322

## (2) INFORMATION FOR SEQ ID NO:710:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:710:

GAATTCGGCC TTCATGGCCT AGCCATAGAA ACTGCCTCTT TTCATGTGGG ATGAAGACAT	60
CTGTGCCAAG AGTGGCATGA AGACATTGC AAGTCTTGT ATCCTGAAGA GAGTAAAGTT	120
CAGTTTGGAT GGCAGCAAGA TGAAATCAGC TATTACACCT GCTGTACACA CACTTCCTCA	180
TCCTGTCAGC CATTGTGAAA TTGACAAACAT GCGGTAATT TAAGTGTGA AGTCCCTAAC	240
CCNTAACCC TCTAAAAGGT GGATTCCTCT AGTTGGTTTG TAATTGTTCT TTGAAGGCTG	300
TTTATGACTA GAATTTTATA TTTGTTATCT TTGTTAAGGA AAATAGAGCA ANNCAAAGGG	360
ACTCGAG	367

## (2) INFORMATION FOR SEQ ID NO:711:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:711:

GAATTCGGCC TTCATGGCCT AGACTTCCAC AGAGACCTAT CTGGAACCTC TGGTTCCTTA	60
CCTCTGCTTC TGTCAGAGCA GCTCTGGGTT TTGGTTTGT ACTATTGTAC ATATTAGGCT	120
TCTATACAAG AAGAACTGGT CCCATTGGTT TAAAAATAAG TTGAAAAATC CTAGAAACAG	180
TGAGAGTCAG AAAAAAAAAAC TGTTTTATA TACATATTCT CTCCTCCACC CCCTTCTCT	240
CCAGTTGAAA TATGTTGCAG AGCTCTAAAT TTAGGGATGC TTTTGGCGTA TTTCTTATAC	300
ACTCCAGAGG CACTCGAG	318

## (2) INFORMATION FOR SEQ ID NO:712:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:712:

```

GAATTCGGCC AAAGANGCCT AGGTTTGAAA ACTCTGCTTC CTTTGTGAAT TTGGTGTTAG      60
GAGTTCTTAT TGTTATTCTG CAGCCTTTAC TATTGTCCTT TATTTACTGA ACACAGTGAA      120
TACCAAGCAC TGTTTATTAG AGGTTAGGAG TAGGGGCAGG TGATTAAAAA AACAAAAAAG      180
CTAATAATCT CCTCAAGCAA TTTCTGGCCT AATAGAATTA TAGTAGACAG TGAAGTATCT      240
AAACCCAGGG AATCAGATTG AGGCACCATG TCCATCGCCT TGAGAATTAA TAGGCTGCAT      300
TTCTGGGTTT TCCNTTTTTT TTTTTTTTTT GCCCAACTGA GTCTTTCTGT GGACTTACAT      360
GGAATTCTT ATTCTCTTAA ATCATTAAAGT TACTTGACAA TATTCTTGA TTTGGAGAAA      420
CTGGATGTAG GGCCGTATGA AAAAATCATT CGAATCAGA ATCTCGAG      468

```

## (2) INFORMATION FOR SEQ ID NO:713:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:713:

```

GAATTCGGCC AAAGAGGCCT ATTTTATTGC CAAACTTCTG AATAAACTGA AACAGCAGCA      60
ACAGCAGCAA CAACAGCATT CTGAAAATAA GAGAGAAAAC TCTGAAGATC CCGAGGAATC      120
TTGGGAAAAT TTAGTTTCGG ATGAGGATTT TTCTGCACTG TCCTTGGAAT CAGCAATGT      180
GGAAGATTG GAACCTGTGA GAAACCTCTT TAGAAAGTTG CAAAGCACAC CTAAGTATCA      240
GAAACTTCTA AAGGAAAGAC AACAGCTACC TGTATTTAAA CATCGGGTCC TCTCGAG      297

```

## (2) INFORMATION FOR SEQ ID NO:714:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:714:

```

GAATTCGGCC AAAGAGGCCT AGAAATACTG GGAAAAAGGA CACTTACTGT GTGACTTAAA      60
TTGATTAAAG GGTATTTCAG TTCAACTCTC TTGAATCTAA TTAGTATTTT TGTGTCATTT      120
ATTATTATAG GGCACACATT TTTTACATTT GATTTAACCT GACCAAAATT AAATGAGCAA      180
ATGTTTATTG CTATGTCCAT TGTTTTCCTT TCTCTGTCAC TGTTAAAAAG AGGAGCCATG      240
GCTTCTGCTT CTTCTGTGTA TTCTCCATTA GACCTTCTTC ATCCACCCCTC TTCCCATCC      300
CTTTCAGCTC TGAAGGGTCC TCTCGAG      327

```

## (2) INFORMATION FOR SEQ ID NO:715:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:715:

GAATTCGGCC AAAGAGGCCT ACTTCTCCAA GCATTCATGT ACATCCTTGG GATCTGCCTC	60
ATCATGGAGC TCATTGGTGG CGTGGTGGCC TTGACCTTCC GGAACCAGAC CATTGACTTC	120
CTGAACGACA ACATTCGAAG AGGAATTGAG AACTACTATG ATGATCTGGA CTTCAAAAAC	180
ATCATGGACT TTGTTTCAGAA AAAGTTCAAG TGCTGTGGCG GGGAGGACTA CCGAGATTGG	240
AGCAAGAATC AGTACCACGA CTGCAGTGCC CCTGGACCCC TGGCCTGTGG GGTGCCCTAC	300
ACCTGCTGCA TCAGGAATCT CGAG	324

## (2) INFORMATION FOR SEQ ID NO:716:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:716:

GAATTCGGCC AAAGAGGCCT AAAGGGATTT AAAACCTCTG TAGAGGCTGG GCGCGGTGGC	60
TCACACCTGT AATCCCAGCA CTTTGGGAGG CCAGGGCGGG CAGATCACCT GAGGTCGGGA	120
GTTTCGAGACC AGCCTGACCA ACGTGGAGAA ACCATGTNTC TCTACTAAAA ATACAAAATT	180
AGCCAGGCCT GGTGGCACAT GCCTGTAATC CCAGCTACTC GGGAGGCTGA GGCAGGAGAA	240
TCACTTGAAC CTGGGANGTG GAGGTTTGGG TGAGCTGAGA TCGTGCCATT GCACTCCAGC	300
CTGGGCAACA AGAGTGANAC TCCATCTCNA AAAAAAAAAA AGAAGAGTTT ACACGAAGTC	360
ACCTCTATTT CAGAAGATAA TCTAGACTCT ATTCCCTCAG AGTCTTTTTT CTCCCCAAAG	420
ATAACACTGT CCTAGGTATT TCCTCATACC CCCAGGCCCA CAGTTCATGG CCCACATGTC	480
CCCTGTAAGC TCGAG	495

## (2) INFORMATION FOR SEQ ID NO:717:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 414 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:717:

GAATTCGGCC AAAGAGGCCT ATTTTGTAGA TCATCAGCTA TTGTTAGTGT TTGTTATGT	60
TATGTGTGGC TCAAGACAAC TTTGCTTCTT TTAATATAGG CAGGGAAGTC AAAAGATTGG	120
ATATCCCTGC TTTATACCA GAAAGACAAC ACCCCACATT TGCAGTGCCT GAAAACACTA	180
CCAGCCATCT GAAAAACATG TGAATTCTAA CTTCTGTTCT TTTTGTAGC AGTGGAAATCC	240
CACGGTGATA TCTGAGGGAT GTGGTTACCT TTTGGAGGAG GTTGACGGTT TCTAAGGATG	300
ATTCTTTCTG AGTGAAATAT TGTCAGTGTC ATTGACCTTT TCATTATTTC AACTATTATT	360
ATTCCAGGTT ATCAATACTC TGGCTGACCA TCATCATCGG GGGACTGACT CGAG	414

## (2) INFORMATION FOR SEQ ID NO:718:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:718:

```

GAATTCGGCC AAAGAGGCCT AGGATGAGAA TGACTGTGCC TCATTGCATC TTCCTGGCTG      60
CCTGATGGGC AGAAAACCTG GGTCTCCTCC CCATTTTAGG AATGGGAAGG CTGAGTCTCT      120
GCGATGAGCC TTCCTCAGGG ATGGTGAGGG GCCGGCCCGG CACTAAGCCC CATTCTCTGA      180
GTTAGGACCT GTAGGAGGGT GGCAGGGGCA AGCGGGGCGG GTGGGTGGCC CAGGCAACTT      240
TGCAAACATC TTCCCTTTT CCGGGAGAAG CAAACGCGCT GTGTGGAAG GCACATTCGG      300
AAGATGGAGT TTCACATCAG CAAGGTCAGC TGGCTCGTGG ATGTTGCAGG GTGGGGTGGG      360
GCAGTGCCAG CTTGCTGGGC CTCAGCTAGG TTAGCAGGAG CTGGGGAGGT GCCCTCGAAG      420
CAGGGATCAG GGCTCTGGG TATGGTGCAG GCTCGAG      457

```

## (2) INFORMATION FOR SEQ ID NO:719:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 509 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:719:

```

GAATTCGGCC AAAGAGGCCT AACTTGACAG AGCTGTTTTA TGCAGAGATA AATTGGAAGA      60
ATGGTCAGCC TCTTAAGCTA GCTTATTCGA AGAGGTACTG GAAAAAATAT GGCAAAGACT      120
TCAACGACAT ATGCCAAAAC TTTTCCCTT GGAAATCATT GACTAGCATC ACTGAATGTT      180
ATTCTTGTG GAGAACTACT GACAGATATG TGCAACAGAA ATGGTTAAAA GCAGCAGAAA      240
CTGAGAGTAA GCTGAAACAA GTATATATCC CAATTTACAG GAAACCAAAT CCCAACCAAA      300
TATCTACCAG CAATGGCAAG CCTGGTGCTA TGAGTGAAAC CATGAGGTTG ACATTCCTGC      360
CTCAGAATCC CCTTGTAGTG CAAGCCTGGG AGGCTGCTG TGCTACACAG TCTAACCACT      420
AGTATTCTTG GGGCCACCT AATATGCAGT GCAATTTGTT GGCTTTATTG AGAAAAATAT      480
GGAGACCTGA AAATGCCAC CCGCTCGAG      509

```

## (2) INFORMATION FOR SEQ ID NO:720:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:720:

```

GAATTCGGCC AAAGAGGCCT AATGTGTAGT CATCTGGGAT ATGCTAGCAT CACAGTTACC      60
TGGAGTCATC TTGAATATGG AGATGACAGG GACTGATTTT GCAGATTCGT TGAGTTGGTG      120
GGATATGTAA ATATGTTTTT CACCAACAAA TCAGATATTT CTGTTGGGCA GCCAAGTGTA      180
ATAACCATG CTGTAAATGA TCTCTGTCCT CTCCAAATCA CATGATTAAT TAAATTATGT      240

```

GAATGCCTAG TTGACTGCTA GGAATGCTT GTACTTTGGA AATATTTTAA CCAAGGACAC 300  
TCTAGAAATT CTCTTGCTCT CCCACCTCAA CAGTGCAACT CGAG 344

## (2) INFORMATION FOR SEQ ID NO:721:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:721:

CGGTAGAGAG GCAGAAGCAA GAGAGCTACG GTTCAGGTTG GGCACCAGTG ATGCCACTGG 60  
TTCTCTGCAA GCGGATTCCA TGACAGAAAC CGTAGCAGAA AACATCGTTA CCAGTATCCT 120  
GAAGCAGTTC ACTCAGTCTC CAGAGACAGA AGGCATCTGC TGATTCTTTT CCAGACACAA 180  
AAGTCACTTA CGTGGACAGG AAAGAGCTTC CTGGGAAAG GAAAACAAAG ACTGAAATAG 240  
TTGTGGAGTC TAACTGACT GAGGATGTTG ATGTTCCGA TGAAGCTGGC CTGGACTACC 300  
TTTTAAGCAA GGATAATAAG GAAGTTGGAC TCGAG 335

## (2) INFORMATION FOR SEQ ID NO:722:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:722:

GGAACACACC TGTGGTGCTA GTGTTGGGAT CGGGGGCGTT TAACGCTGGT GGGCAGCAAT 60  
AAGGGGCAGA TGTGCCCAGA TGCCTGCATC CCCAGGGTGC CGAGGGCAGC AGGAAAAAGT 120  
GGGGACCTCG GTGCATTTGC CCCACCCCTC CCCTCCCTGG GCTAAAGCAC AATGTTCTCC 180  
CCGCAGATTA ATGACCCTGC ACCCTCCAGG CCCCTACTCA CATCCTCCCC CAACCGGCTT 240  
CGGGTCTCTC CACCACACTC TGGTTTCTA TGCTGTTTTC GTGCAAGTAC AACTGTCGTA 300  
GTCATGGCTT TGGGATGGGT TCTGTTTATT AAAATCCTAT TACTCGAG 348

## (2) INFORMATION FOR SEQ ID NO:723:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:723:

GAATTCGGCC TTCATGGCCT AGTAGTTGTT CCATGCTGTT GTTTTTTGTT TTATCTTTCA 60  
TTGCCTTTCC CTCTGCAGTC AACATTATGA CCTGGGGACT CCAGCATCCT TCAAGCAAGC 120  
CAATTCGAA GAAGGTGAAA AGAAGCCAGG ATGATTGGCA CCTCCTCCTC CTCCTCCTCT 180  
TCTTCCTCTT CCCTTGCCCA GCCCCTCCT GTGCGTGTGT TTCAGACAAC ACAGGAGCCA 240  
GCACAGGAGT GGAAAATCCT GTAGCGCAAC TCGAG 275

## (2) INFORMATION FOR SEQ ID NO:724:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:724:

```

GAATTGGCAT CTTTTCATTG CTTTGGCCCT TTGAGAGTTG TTTAGTTTTT TAAAAGTCAG      60
ATAATTTTGG ATTATATTCT AGACCTTTTG AATATTATGT TATAGGACTC TGGAGTCTGT      120
TAAAATCCTT AGGAAGACAT TAATTTTGTG AATTTTAAAC GACAGAAGTC CTTGTTATAT      180
TGATCCATTG GTTGTGTTCTA CACTTGTGCA CCTTGGAGAT GAGTCTGACT TCATATGCAG      240
AATTTAGTAT CCCTTTCCTG AGCTCCCTCC CCTCTGTGAT CCTCCCCATT CTTCCCTTCT      300
CCCAAGAACT TCTCGAG                                     317

```

## (2) INFORMATION FOR SEQ ID NO:725:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:725:

```

GAATTCGGCC TTCATGGCCT AGGGTCAGTG AATCTGCATT ATTACATAAA AAATAAGGCA      60
GAGGAAGCAA TCAAATATGC GTTGTGCTCT GGTGAGCCTC AGCAGGGATG ACTTTGAGTT      120
CTGTCTGTCC TTTGTCCACA AGGAATTTC TGTGGAAGGA TGTGAAGGA GGTATGTCGC      180
TTCTTAATC TGTACCTATC TTATTTAGGA ATAAATGGG AGGCAGGTCT GTCTGACATA      240
GTCCCAGTT TGACTTTTCC CCTGACTTAG TGATTTTGAG GTCTCGAG                                     288

```

## (2) INFORMATION FOR SEQ ID NO:726:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:726:

```

GAATTCGGCC TTCATGGCCT ACACACTAAT AGGATTGGAT TTATGTATGT CCAGCTTGGG      60
AATTATTACA GGAATTAAAA ACAACTTTTT AGAGTGCTTT CCTGAGCTCT CTTTCTATTT      120
GTTCCCTTCT CTAATTTTTG CTTCCCTGTG GCTGCTGTTT CTATCTCCA GCCAGAGAGC      180
TAGTGTTTAT TTTCTCCATT GTGTTACACA CTTGTGCAGC TGCAACCACC ATATCCAGGG      240
GCTCGAG                                     247

```

## (2) INFORMATION FOR SEQ ID NO:727:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:727:

GAATTCGGCC TTCATGGCCT AGAATTCTAG ACCTGCCCCG GTCTTCCTCC TCGTCCTGCC	60
GCAGGGCCAG AACCCCTGAC GGTATTCAGC TGC GCGTAAG TCTGGCCGGT GCCATCTGTC	120
TCCGCAATGC CCCCCAAGAA ACAGGCTCAG GCCGGGGGCA GCAAAAAGGC GGAGCAAAAA	180
AAGAAGGAGA AGATTATCGA AGACAAAAC TTCGGTTTGA AGAATAAGAA AGGAGCAAAG	240
CAACAGTTAT CTCGAG	256

(2) INFORMATION FOR SEQ ID NO:728:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:728:

GAATTCGGCC TTCATGGCCT AAGTGCTGC GCTCTAATAA CCATGTTTAT CTCATGCCTT	60
TGGGCCTTTG CATATGTGTT TCCTCTGCTG ACACCAACCT CCTCCTCCTC CTCCTCCTCC	120
TCTGCTTGGC TGGCTTCTCT CAGTCTCAGT TGCGATACCT TCTCTTCTAG GAAAGCTCCC	180
CTGACCACTC TTTCTTTGGG CTTCTATAAC CCCCCTGTCT GCCCCCATCA GGGCACCTCC	240
CAAATTTTCAG TGTTCCTTT CCTCCTCCCC AATCTCGAG	279

(2) INFORMATION FOR SEQ ID NO:729:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 231 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:729:

GAATTCGGCC TTCATGGCCT AGAGAAACCT ATTTTTCAT TTAACCTGTT CTTAAATCC	60
AGTATGTTCC AGAACATACA AAAATGTTA AATGTTCCAT TTGTAAGAGG ATATCATGTA	120
TTTATATCA ATTTAAATGC AGTTATCCTA ATCATTTTTC TTTCATTTT ACCCTTTATT	180
AACCTTCAT TTGTTTACAA AACAAATCCA CTCTATAAAC GCAATCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:730:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:730:

```

GAATTCGGCC TTCATGGCCT ACACACATAA TTAGTTATTT TACCATTCTT TCATAGTTTT    60
AAGAGCAAGT TTTCACAAGG GCGATTTGAA TTAGAGGGTA GAATAATATT TTA AAAATCG    120
TTTTCTATTA TTCAAATATA GAATGTTATT AAATTTTTTG GTATCGCTGG TTAAGTGCCT    180
AGA ACTTGAT CATCTTCTAT TTCTTTTCC TTTTGCTAT GAGAAAAATA ATGCTCAGAG    240
AAGTATACTC GAG                                                            253

```

## (2) INFORMATION FOR SEQ ID NO:731:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:731:

```

GAATTCGGCC TTCATGGCCT AAGAGACTTA ATTATTAACA AAGTATTAGA AGCTAGAAGT    60
AGGTAAATA AGTGATTATT TTAATAAAAA TTATCCTTAC TTTACAAAAT CCATATTAAC    120
CTCACTTGAA ATTTTATGAG CTTTCCTAT AAGTTTAAAG AGATAGAAAT CAGTGAAAGA    180
CCTCAGTAAT TCCTGCAATG ATCTTAATAG AAAATATTTT ATACCTTCTC TCCCTCGAG    239

```

## (2) INFORMATION FOR SEQ ID NO:732:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:732:

```

GAATTCGGCC TTCATGGCCT AAATAAATAT CTCATTTTAA TTGTTACTTT GTTGGACTTG    60
ATTACTGCAA ACCTATCACT AATTCTTTCT GAGTTCACCG AAAGAAGTGC AAAACCCCTTC    120
AATATATTAC CATCATGTGC TTCTTCTGTC CCACTCTTTT CCTTAGAGAC ATTTTGTTTT    180
TGTTGTTTTT AATTGGTATT GTATTGTTTT TCAAATCTTT GTCCCCCAG GCTCGACCTA    240
TAGTGAGTCG TATTAAATTC AG                                                            262

```

## (2) INFORMATION FOR SEQ ID NO:733:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:733:

```

GAATTCGGCC TTCATGGCCT ACACACATAA TTAGTTATTT TACCATTCTT TCATAGTTTT    60
AAGAGCAAGT TTTCACAAGG GCGATTTGAA TTAGAGGGTA GAATAATATT TTA AAAATCG    120
TTTTCTATTA TTCAAATATA GAATGTTATT AAATTTTTTG GTATCGCTGG TTAAGTGCCT    180

```

AGAACTTGAT CATCTTCTAT TTCTTTTCC TTTTGCTAT GAGAAAAATA ATGCTCAGAG 240  
AAGTATACTC GAG 253

## (2) INFORMATION FOR SEQ ID NO:734:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:734:

GAATTCGGCC TTCATGGCCT AGTATCACAG GCTTCTTCA AATAACCAGT TCCTCTAAGA 60  
CATTGAAAAT ATAATTCGGT GTTTAAAATA AATTCATACC CGTTTGTGT GCTGTGCATA 120  
AATAGCAAGT ATATGTGTAC CTTACCAAAC TTATGGTCCC CAGTCCCCAA ATTCCAAAAT 180  
TATGCAGGAG GGAAGGTTAG CCATTGCAGT AAACAATTTC TCCCTATTGA CCCATGCTCT 240  
CCAGCTGATT ATGATGTGGG CAGTACTCAT CCAAGGCTAT ACAGACCAGC CGGGTCTCGA 300  
G 301

## (2) INFORMATION FOR SEQ ID NO:735:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 241 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:735:

GAATTCGGCC TTCATGGCCT AGAGACACAA TGGGCTCCAA GAATTGAAA TCCCTCATCT 60  
GTGAAGGCAG AAATACTAGG AGAATGGGTA ATGTTTATAC CATCAATGAA GAAACTCTTG 120  
TAACCTAGGG TTTTCAAATT ACAGAAGAGG AAGAACAATG GAGGCTGATC TCCAGTTTGT 180  
GACAGTCTAG ATAGGTGGCC TCAGTCTTGC TCTTATAAAT TCTAATTCCC AGAAGCTCGA 240  
G 241

## (2) INFORMATION FOR SEQ ID NO:736:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:736:

GAATTCGGCC TTCATGGCCT AGTGTCTTCTA TCTTCCAATT TTCTTCTAAG TTTGTACATT 60  
TTGCCCTTAG CTTTTTGTCT CTTAGCTTGT CTTTTTCTT CTGCTTCCTA CTTTTCAGGT 120  
TTAAATTTAT CTTTTTCTT CTAAAAGTAT GTTTTATCT TCTAATTCC CTATCTTCTC 180  
TATTCTTTTTC TCGCCTTCC CGTACTTCTG TCTTCCAGT TTACACTTCA AACTTCTATC 240  
TTCTCCAAAT T 251

## (2) INFORMATION FOR SEQ ID NO:737:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 313 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:737:

```
GAATTCGGCC TTCATGGCCT ACAGGGTTGC TGGGATGATC AGTGATTTTG CTAATATCAA    60
AAGTGCCCGAG CACAGTGCTT GGGTTGTTGG AGGCATTGAA CACACGGCAT TGTTATTATT    120
TATATGCCTT GTAAGTGGAA GAGCCTGTGG GCAAACAGTG GATGCTAAAA TTCAGTTTGT    180
GGAAGAACCA GGTGCACAAA CTCCTGTTCT ACCTGTGGTT GAGTCTACAC TCCCCACCA    240
CACCCAGCT GCTCTGATCT ACCTCCTGTT CCTTGAGCAG GCCATTTTCT TTCTTGCTTC    300
AGGGCAACTC GAG                                     313
```

(2) INFORMATION FOR SEQ ID NO:738:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 302 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:738:

```
GAATTCGGCC TTCATGGCCT AGTGTCGTTG TTCCATCTGG TTTTCTTCTT TCAAATTCGC    60
ACTGACTGTT CACAAGCCGC CTGGTCAGCT TTCCTCCAGA TTCCTTCACG ATGCGGTCAA    120
GCTGCTCCTG CTCTCTCTCT AAATTATTGC TTTTAAACTT ATCTTCAAGC ATATCTTTGT    180
CTTTCTTTTT ATTTTCTTTG CTGGGACTCT TGAAGGCGTG TGCTTCGGCA TCTCCAGAGT    240
CCTCTCTCTC TCTCTGCCAG CAGCCTCCGT CCTCCCCACT CTGTGAGGTG TCTGTTCTCG    300
AG                                     302
```

(2) INFORMATION FOR SEQ ID NO:739:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:739:

```
GAATTCGGCC TTCATGGCCT AGGACTGTAC CAGCGCTATA CTGTAGTTAT TTTTTTAAAT    60
GAAGTTCACA TATTTTGTGA TTCTTTCAAA TTGTTTGCTA TATATAAAAG AAGCTCACTG    120
CAAAATGCTT GAAGGAAAAA AGGAAACAAA AGAAATTCAG AACTTCCCAG AAATGTACAG    180
CTTTTCGGCC TTCATG                                     196
```

(2) INFORMATION FOR SEQ ID NO:740:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 309 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:740:

ATGGCCTATG	CCTCCCCACT	CCACCCACCT	CTGCCTTCCT	TACTGCTGTA	TCTGCTGCTT	60
GAACTGGCAG	GAGTCACACA	TGTGTTCCAT	GTGCAACAAA	CGGAGATGTC	ACAGACTGTA	120
TCAACTGGGG	AGTCAATCAT	CTTGAGTTGC	AGCGTACCCG	ATACCTTACC	AAATGGACCT	180
GTCTTGTGGT	TCAAGGGAAC	AGGGCCAAAC	CGGAAATTAA	TCTACAATT	CAAACAAGGT	240
AACTTTCCTCA	GAGTAAAAGA	GATTGGAGAC	ACCACCAAGC	CTGGCAACAC	AGACTTTTCC	300
ACACTCGAG						309

(2) INFORMATION FOR SEQ ID NO:741:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:741:

GAATTCGGCC	TTCATGGCCT	ACTGAAGGTA	GGTGAGTTCA	TCCTCTTCAT	AGTAATGCTG	60
TTTTACCAAG	ACTTTATAGC	AGATGGACCC	AGAAAGAATT	TTCGTCTATT	GTGTCACTA	120
CAACAGGATA	GGGACATCAG	ACAGCCCCAG	AAACCCCTTC	CAGATCTGAT	ATGGGACTAT	180
TAATTTTAT	GCTGTTAATT	GGTATTCATT	CACAAATGCAG	TTGAAGGGGG	AAGGCTCCAC	240
TGCATTCTTT	GGCTAAGGCC	TGAATGCTTG	CTCATCTGTA	AGATCTATAC	TCGAG	295

(2) INFORMATION FOR SEQ ID NO:742:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:742:

GAATTCGGCC	TTCATGGCCT	ATAAAAAGTG	GGCCAGTTTA	AAGAAAAATT	TTATCTAAGC	60
AGTAGTACAG	CTGGCTTTCC	AATATGGCAA	AATAAGTCTT	TCTGTAGGAG	ATATCACCAT	120
TTTGGCAGGA	TTGAAAAGCC	TCTTGTTTTG	TGCCATATAA	TCAAACATA	TCTGTATTTT	180
GAAAAATGAC	AAAGGGTATA	ATAATTCCTA	GAATTGGTTT	TAAAATGAAG	GAAAATAGTA	240
TCCTAGTTCA	AAAGTTATGG	CTCATTGTAA	GTGCTGGTCT	GGTATAACCA	TACAGATTGT	300
TTAAAATCTT	TAAATAAATA	CTTGGCCCAA	TCCCTTTTGT	TCCCCCTTTC	TCGCTGCCCT	360
GTAAACTCGA	G					371

(2) INFORMATION FOR SEQ ID NO:743:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:743:

GAAATGACTC TAGCCTGTGG AAAGAGAATC ATAATTCTAC GGACCTTTTA AATCCGCCAG	60
GAACCCTGAA TATCTATCTT TTTTGCTTGA CATGTCTCAT GACTTTTGCA GCCTTGGTGG	120
GCAGCATTTA TTCACTAATT TCCCTGCTGA AAATGCAGAA CAGAACTGTT GTGTCCATGC	180
TTGTGGCTTC CTGGTCTGTG GATGATCTCA TGAGCGTCCT GTCGGTGACC ATCTTCATGT	240
TTTTCAGTG GCCAAACGAG GTCCCGGTT ACTTCCAATT TCTGTGCAAC ACCTCTCGAG	300

(2) INFORMATION FOR SEQ ID NO:744:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:744:

GAATTCGGCC TTCATGGCCT ACCCTAAGAG AAATTCTCTG GTGATAATCA CAGGGTCCAA	60
AAGTAAAGGA AACCTGGCAG TCTCTGGTGT CCATCATGTG CTTATTCCAC TTGGTAAAT	120
AATTTGAGAT GCCTTCTAGT AAGGAATGGA CCTTAGTGGT GATGGTTAGT TGCGTTATGA	180
TGACAGCCAC TGGGTTGGAG TACTTAGAAA GCTCCGAGT ACTAGACAGC TCCACAACCT	240
CTTCAAAAGT ATCCATGGGA TACAAAGGCT TAGGATCATT GAGACACTGA ATCAAGGGCT	300
CAATCTGGTA AAAATCTGCT TCTTCCGAA GCAGATCAAA TTCCTTAAAA TCCNACGGTA	360
AGGTCAATTC TGAAGTTCTT AAGAAGTTGA GGACATATCG GAAAAGAGGT CCATCTCGAT	420
CAATAAAGTA ATTGCCTTGA GGGTCTCGAG	450

(2) INFORMATION FOR SEQ ID NO:745:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:745:

GAATTCGGCC TTCATGGCCT ACTTATTAAC CCCAATCAAT AGAGTTGAGA GACTATGGCT	60
TTAAAAAATT AATGCAAACC TGGCTTTAGC TGTAATAACA CCCACCGTAA GCACTTGGAC	120
TTAGTTATTA TAGACAAATG TAAAGAAAAT TTAATGAAAA ATAACACCCCT CTCTCTTAA	180
AAAAAGAAGT CTCAGGCAAT AGATGCCTGG TACTATGAGG AAGAATGTTA GAAATAGAAG	240
TGAAATCCCA GAGAAGCCCN AAACCCCCCA ATCTCGAG	278

(2) INFORMATION FOR SEQ ID NO:746:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:746:

```

GCAATATCAA ATAGCTAACT TCACCCCCAA CCACAGTCCT TGCTGTTGGC ATTTACTCAA      60
CTAGTCTTTA ATTCTGTGTT GACAAACTTT ATAAGGTGCT ACAAGACAGA TGATTTTTC      120
CCATCTACCA TAATGTGGAA CAGATATTTT GTCTTCTATC TCCTGCTTTT GTCAGCGTTT      180
ACGAGTCAAA CAGTATCCGG ACAAAGAAAG AAAGGACCAA AATCAAATTT GCTGCAAGG      240
AAAAGTGATG TCCAGGGGCA CCTCGAG                                         267

```

## (2) INFORMATION FOR SEQ ID NO:747:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:747:

```

GTTCTACCTG GAATATGGTC CTTCTACCTG GAATATTTTT TCCTCAGGCC TTCTCTGGCT      60
TCTTCTTCCT TTATTCCTTG GATCTCAGCT TAATCATCTC TTGGCAAGT ATCCATGATC      120
CAAACCTGGGT TAGTGCCGCT CCCAAGACCC CCTTTATTAA CCCTGTACTG GCACTTAAAA      180
CATACTCTAT TGTATTTGCC AGCTCCTTGG CCTGTCTGCA AGTTCCTTCA GGCATGCTGC      240
CATCATTCTC ATTTATCACT GTATCTCCTG TGCCACAGCAG TCTCGAG                                         287

```

## (2) INFORMATION FOR SEQ ID NO:748:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:748:

```

GAATTCGGCC TTCATGGCCT ACTTTATCTG CCTCTACACT CTCTCTGGT TATTCAGGAT      60
ACCTTTGAAG GAATATTCTT TCGAAAAAGT CAGAGAAGAG AGCAGTTTTA GTGACATTCC      120
AGATGTCAAA AACGATTTTG CGTTCCTTCT TCACATGGTA GACCAGTATG ACCAGCTATA      180
TTCCAAGCGT TTTGGTGTGT TCTTGTGAGA AGTTAGTGAA AATAAACTTA GGGAAATTAG      240
TTGAACCAT GAGTGGACAC AAGAAAAACT CGAG                                         274

```

## (2) INFORMATION FOR SEQ ID NO:749:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:749:

```

GAATTCGGCC TTCATGCCTA GGCAGTTTTT GTTGCCTGCC ATTTTTTTTT TTTTTTTTNG      60
CACATCTCAT TATATATTTT TTGTGATCTT TGGAAAGTGA ACATTTTACA GAATACATTA      120

```

TAGCAACTCT GAGTAACCTT CTCCAGGTT TATTTGTATT TGCTCATTGC TTATTATTT	180
ATTACTAGCT GGGTTTTTTT AGTGGCACCT ACTCCTCTCC CCACTTAACC CTCTGATGTT	240
ATGCTTGTTA TGCCTGATCA GGGCAGTTAC GGATTGAATT GTGTCCACTC AAAATGTATA	300
TGCTCATGCA CTGACCTCCA GTGCCTCAGA ATGTGACACC TCGAG	345

## (2) INFORMATION FOR SEQ ID NO:750:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:750:

GAATTCGGCC TTCATGGCCT ATAGAGTAGT GATTTTGGTC AGCGTGTGTG CTATTTTCGGT	60
GTTTCAGTTT TTCAGCTGGT GGAATAGCTA CAATAAGGCA ATCAGCTACC TAGCCACAGT	120
GCCCAAGTAC CGTATCCAAG CTACAGAGAT TGCCAAGCAG CAGGGACTGC TCAAAAAAGC	180
CAAAGAAAAA GGCAAAAACA AAAAGTCCAA AGAAGAAATT CGTGACGAGG AGGAGAACAT	240
CATAAAGAAC ATTATAAAAA GTAAATAGA TATAAGGGT GAACCTCGAG	289

## (2) INFORMATION FOR SEQ ID NO:751:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:751:

GAATTCGGCC TTCATGGCCT ACCTAGGCAG ATGGAGCTTG TTATAATTAT GCCCATAGG	60
GATAGTACAA GGAAGGGGTA GGCTATGTGT TTGTGAGGG GGTGAGAAT GAGTGTGAGG	120
CGTATTATAA CAAGCTCCAT CTGCCTACGA CAAACAGACC TAAATCGCT CATTGCATAC	180
TCTTCAATCA GCCACATAGC CCTCGTAGTA ACAGCCATTC TCATCCAAAC CCCCTGAAGC	240
TTCAACGGCG CAGTCATTCT CATAATCGCC CACGGGCTTA CATCCTCATT ACTATTCTGC	300
CTAGCAAAC TCAACTACGA ACGCACCTT CTGAG	336

## (2) INFORMATION FOR SEQ ID NO:752:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:752:

GAATTCGGCC TTCATGGCCT AAGGAAAGAA GAGCAACTTT GTCAGCTTGA GAAGGAACAG	60
AAAGCCGCCC TCCCAGCTA TTTCCAAAT AGAGTCTGCC TTAACTGTG GATGTCCGAG	120
GTTGCGCTGA TTTTCAGGC TATTCTCAA GAGAAAGGCA GAGTCAGTCT TCCTGCCTTT	180
CTACTCTCAG GCCTCTTCC TGAGTGCTAG AAGGAGCTCT TTTAGTTGGT TTATACCTCG	240
GGACCCTTAT TTCCCTCTCA CCTCGGCC CAATCTCGAG	280

## (2) INFORMATION FOR SEQ ID NO:753:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:753:

```

GAATTCGGCC TTCATGGCCT AAGAAGAAGT AAAGTGCCTT GCCTGGACTA TTTCCAATGA      60
TGCCAAACAA TAATTGTTGC CCCTTGCTCT TCTTAAAAGG AGACTGCATC CATTTAACCA      120
AACTAAGAAA TTTTCAATTA GTCCTCTGCT GAAGTCATAC TATACACATC TACTTAATTA      180
AAGATACATT TATTGAAGAG AACAGGTCTC CTCCGGGTTT ATCTGCTATA GCCTTGCTTA      240
GGAAAGGAAT AATAGTCTGT CTTTAAATTA GGTGTGGCTA TTGATTGGAG CAAATGTTGT      300
CAGGTGGCCC AAGCATGAAT CAATGAGTGA CCATGAGGTC ACCCATCAGT GAGGGCACCC      360
CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:754:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:754:

```

GAATTCGGCC TTCATGGCCT AACCTATTG CCTCAGTCCT ATCTGATTCA TGAGCACATG      60
GTTATTACTG ATCGCATTGA AAACATTGAT CACCTGGGTT TCTTTATTTA TCGACTGTGT      120
CATGACAAGG AAACCTACAA ACTGCAACGC AGAGAACTA TTAAAGGTAT TCAGAAACGT      180
GAAGCCAGCA ATTGTTTCGC AATTCGGCAT TTTGAAAACA AATTTGCCGT GGAAACTTTA      240
ATTTGTTCTT GAACAGTCAA GAAAAACATT ATTGAGGAAA ATTAATATCA CAGCATAACC      300
CCACCCTTTA CATTTTGTGC AGTGATTATT TTTTAAAGTC TTCTTTCATG TAAGTAGCAA      360
CGGGCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:755:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:755:

```

GAATTCGGCC TTCATGGCCT ATGGAAAAC ACTCATTCAT TCTTCAGAAC TGTTTTCAGG      60
ACTTCAAGGA GGCCTTCCCT AACCACCCTA TTAAACATTC CAGTTCTTGC ACCATCCCCA      120
CCCCTACTCT GCCCTCACTT TTTCTCCAT GGCCTGGGC ACCAGCTGGC TAACTCTGTC      180
TTCAAAAAGT ACTTTTCTTT GGGGGAGGTT TTTCTTTGT TTTGTTTTT TTTCTTTTCAG      240
TCCTGTATCT TCAGCACTTA GAAGAGTTCA TGGCACACAT CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:756:



## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:756:

```

GCGCCGAGTG GGACAGCGCT GGTGCGGAGA CTGCTTCCGG ACTCCAGGTA CCGCGCTTGG      60
CGGCAGCTGG CCCAGACTT CTGTCTTTTC AGCTGCAGTG AAGGCTCGGG GCTGCAGAAT      120
TGCAACCTTG CCAATGGACC TGATCGGTTT TGGTTATGCA GCCCTCGTGA CATTGGAAG      180
CATTTTGGGA TATAAGCGGA GAGGTGGTGT TCCGTCTTTG ATTGCTGGTC TTTTGTGTTG      240
ATGTTTGGCC GGCTATGGAG CTTACCGTGT CTCCAATGAC AAACGAGATG TAAAAGTGTG      300
ACTGTTTACA GCTTCTTCC TGGCTACCAT AATGGGTGTG TTCTCGAG      348

```

## (2) INFORMATION FOR SEQ ID NO:757:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:757:

```

GCGAGGTCAG GAGCTATGGG ATGGTATTAA TACATTGGCA GAGCAACCCA AGGGGGCAGC      60
ACATGCAGTG AACTGCCATG CAGAACTCCC GACGGGCCTC TTCCCATCC CAGAGTGGGG      120
AACAAACACG CGTCACAGAC AAGGAAGTGG GTGCCCCCGT CCCCTCCCCG ACCCCGAGAC      180
CCAGGAGTGC TGGGCTCCGA GCAAGTCTAT TGCAATGCTT CCTGGCCAAA GCTATATGGA      240
AAGCGGGAAC AGCAGGCTGG GGAGATGATG CTGGGGGGTG GGAAGGAAA GCGTCTCGAG      300

```

## (2) INFORMATION FOR SEQ ID NO:758:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 393 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:758:

```

GAATTCGGCC TTCATGGCCT AGAATATTTT ATTATAAATA TAATATATGA TTTTTTAACC      60
TGTTTGTGTT CCTCATATGC TGTCAGGTTA ATTTGTTTTT CTTCGTGCCA GAGGTGGGGA      120
GGAAGGCACT CTGTCTGCTG GGTAAATGCC TAAATTCATC CACCTTCATG GTTTGGGGGC      180
AGCATGGTCA TTGTGGATAT TGGTTTTGTG GAGTTGAGGG AACCTAGGAT ATAAGTTCAC      240
TCCCTCTATT TTTCTTGTG ATTCAGTTTT TCAAAAATCT TTTTCTTCTC CCTTCTCCC      300
CATTGTGGAA ATTACAAATC AAAGGCCTTT TTCTTTAATG TAAAGTGTAT TTATTTAAAA      360
AAAATACAAA ATAACTACA AGTCTATCTC GAG      393

```

## (2) INFORMATION FOR SEQ ID NO:759:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:759:

GAATTCGGCC	TTCATGGCCT	AAGCACATTC	AAGATGCCCA	CNAGAACCAT	CGTGTGGGC	60
TCATGTTTAT	TACTTAAGCA	AGAGAGCTCT	TACCCAAATT	CCTTTGTTTC	CCCACTGTCA	120
GAAACAACAT	AGTCTGGAAC	TGGAGGCCTA	GAACCTCTGGT	TGTATTTCCT	GTAGTGGGTA	180
AAAGTCNACA	AAGATAATGA	ATGAGGCAGT	GTCTCCTCAT	GCCTTCATAT	TTTCTTTTGT	240
TATTTTAATT	TTTTTTTATT	TTTTATTTT	GTGGGTGATA	GTAGGTATAC	GTATTTGTGG	300
GGTACGACTC	GAG					313

(2) INFORMATION FOR SEQ ID NO:760:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:760:

GGAAAAAAAA	GGTAAGATGG	ATGAAAAGGA	GGAGAAGGAA	TTTAATACTA	AGGAAACCAG	60
AATGGATCTT	CAAATAGGAA	CAGAGAAGGC	TGAAAAGAAT	GAAGGTAGGA	TGGATGCAGA	120
AAAGGTGGAA	AAGATGGCAG	CAATGAAAGA	AAAGCCTGCA	GAAAACACTT	TATTTCAAGG	180
CATACCCAAA	TAAAGGAGTG	GGTCAGGCTA	ATAAGCCTGA	TGAAACTAGT	AAAAC TAGTA	240
TTTCTGGCTG	TATCAGATGT	ATCTAGCAGT	AAACCAAGGT	CACTCGAG		288

(2) INFORMATION FOR SEQ ID NO:761:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 482 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:761:

GCTCGAGGCA	GGGGGAAATG	GCGGCTTCAG	GAGAGAGCGG	GACTTCAGGC	GGCGGAGGCA	60
GCACCGAGGA	AGCATTTATG	ACCTTCTACA	GTGAGGTGAA	ACAAATAGAG	AAGAGAGACT	120
CGGTTCTAAC	TTCGAAAAAT	CAGATTGAAA	GACTGACCCG	TCCTGGTTCC	TCTTACTTCA	180
ATTTGAACCC	ATTGAGGTT	CTTCAGATAG	ATCCTGAAGT	TACAGATGAA	GAAATAAAAA	240
AGAGGTTTCG	GCAGTTATCC	ATCTTGGTGC	ATCCAGACAA	AAATCAAGAT	GATGCTGACA	300
GAGCACAAAA	GGCTTTTGAA	GCTGTGGACA	AAGCTTACAA	GTTGCTACTG	GATCAGGAGC	360
AAAAGAAGAG	GNCCCTGGAT	GTAATTCANG	CAGGAAAAGA	ATACGTGGAA	CACACTGTGA	420
AAGAGCGAAA	AAAACAATTA	AAGAAGGAAG	GNNAACCTAC	NATTGTAGAG	GNGGNACTCG	480
AG						482

(2) INFORMATION FOR SEQ ID NO:762:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 83 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:762:

GGGGGATGCC AACATTAAA GCAAGAGGCA GAAGGGCTCC TGCAGGAGAC AGGGAATCGG	60
GAAGGCAGCA GGTAAACTC GAG	83

(2) INFORMATION FOR SEQ ID NO:763:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 296 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:763:

GAATTCGGCC TTCATGGCCT AGGAATTGAA AAGAAAGGCA GAGGAGGAAA GGATTCGCCT	60
AGAAAGAGGA AGCCCGAAAG CAGGAAGAAG AAAGGAAGCG GCAGGAAGAG GAAAAGAAAA	120
AACAGGAAGG GGAAGAGAAA AGAAAGGCAG GCGAGGAGGC CAAGCGGAAG GCTGAGGAGG	180
AGCTGTTGTT GAAAGAAAAG CAAGAACAAG AAAACAAGA GAAAGCCATG ATTGAAAAGC	240
AGAAAGAAGC AGCAGAAACA AAGGCCCGGG AGGTAGCTGA ACAGATGCGT CTCGAG	296

(2) INFORMATION FOR SEQ ID NO:764:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 289 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:764:

GAAAGAAAAC TAACCAGGAT TCCCTCAGTG TTATTTACTG GGATTGGCAT ACGTGTTTAC	60
AGGCAGAGTA GTTGATCTCA CGCAACGGGT GATCTCACAA AACTGGTAAG TTTCTTATGC	120
TCATGAGCCC TCCCTTTTTT TTTTAAATT GGTGCCTGCA ACTTTCTTAA CAATGATTCT	180
ACTTCCTGGG CTATCACATT ATAATGCTCT TGGCCTCTT TTTGCTGCTG TTTTGCTATT	240
CTTAAACTTA GGCCAAGTAC CAATGTTGGC TGTTAGAAGG GATCTCGAG	289

(2) INFORMATION FOR SEQ ID NO:765:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 306 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:765:

```

GCACCAAGAG ATGTTTATTA GGGCAATCAA AAGATGATTT ATTATTTTTT AAAAAATCAA      60
TGTGGCCTTC CCTTCCTCTT TCTTTTGATT CCCCTCTTTG AGTTTTTATG TGTCTCTTTT      120
GCCTTCCTTT CCCAGAGTGG AGGAGTTAGA CCTGCATTGT GGGATGAGAG GAGTTCTGGC      180
TATGTGTCTG CTGGCACCAA GAGGGCTGAG GGTGAGGTGT GGAAGGGACA GGGGGAGGAG      240
ATGGGCAGCA TTGTTAAGAG ATTGGTACCA CTGAGCAAAT ATGTTGAGAA TGATGATTGG      300
CTCGAG                                     306

```

## (2) INFORMATION FOR SEQ ID NO:766:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 395 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:766:

```

GAAC TTGAC ACCTACACTT AAATTCTGAG TCATTAAACA GGCCTACATT TATCAACTGT      60
GGAAATATCA GCCAGTTTTT GCAAACCTCT TCTTAGGACA CTAAGTTGTT TGCAGAAATC      120
ACTAGCATTG ACTGACTCAG CAACAATGTG GTTATATTCT TTGATTAACT TAGTCCTTTT      180
TCTTGGTCAA GAGTCAGTAG ACAGGACTGA AGCTTATGCC CCTTGCCCCC CCACCACCAC      240
TCCATTACTA CCACCTTGGT TTAGCCATCC TTTTCTTGAT CTGTTCTCCC CACTTCTACT      300
GTGCTACTCT ACAGACTTGC CCTGAATGTA AGAGCAACAA TTACCTTGTA AAGTCCAAGT      360
TGGGGCAGGT CACTCCCAA CTCCACAACC TCGAG                                     395

```

## (2) INFORMATION FOR SEQ ID NO:767:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:767:

```

GAATTCGGCC TTCATGGCCT GCCTCGCTGC TTTCTTTTCT CCAAGACGGG CTGAGGATTG      60
TACAGCTCTA GCGGAGTTG GGGCTCTTCG GATCGCTTAG ATTCTCCTCT TTGCTGCATT      120
TCCCCCACG TCCTCGTTCT CCCGCTCTG CCTGCGGACC CGGAGAAGGG AGAATGGAGA      180
GGGGGCTGCC GCTCCTCTGC GCGTGCTCG CCCTCGTCCT CGCCCCGGCC GGCGCTTTTC      240
GCAACGATAA ATGTGGCGAA TCTCGAG                                     267

```

## (2) INFORMATION FOR SEQ ID NO:768:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 492 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:768:

```

GAATTCGGCC TTCATGGCCT AGCATGTCTT CTGCCTCGGC CTCCCGGTA GCTGGGATGG      60
CAGGTGTGCA CCACCACGCC TGATTTTGT ATTTTATGTA GAGATGGGGT TCCATCCATC      120

```

CATTCCTAGG	CCATGAAGGC	CGATCTTGTT	TTCCTGAAAG	TATGGCATCA	AAAATACTTG	180
TAGAAAAACC	TTGTCACAAC	TGATTTGAAT	GTTCTTATTT	TCTTTTCCTT	TGACTTTGAT	240
ATTGGCTTGT	AATGTCTCTT	TTCATCATAT	GTAATATCAG	TGGAACAGGC	AGCGCTACTC	300
AAGTCCTAAG	GATTCCTCAG	TGATCAGTGA	TCCAGGGCCG	TTCATGAACC	ACTGGGCTGG	360
ATTTGACTGT	TGAGTGTGGC	AGTTAATGCC	CCTCAAGAAA	TCAAAGGATG	TCTTATAAGT	420
GTCTTCCAAA	AAAAAAGCAA	ATGCTGAAAT	CCTATTGGCA	AAGTAAACTG	AAATTGGCTG	480
CTACCACTCG	AG					492

## (2) INFORMATION FOR SEQ ID NO:769:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:769:

GAATTCGGCC	TTCATGGCCT	AACGTGAGCT	GCAGGAGCTG	GCCCCGAAGC	TGCAGGAGCT	60
GGCCGATGCC	TCAGAAAACC	TCCTTACCGA	GAACACGTGG	CTCAAGATCC	TGGTGGCGAC	120
CATGGAGAGG	AAACTGGAGG	GCAGGGATGG	AGCTGAAAGC	CTGGCGGCCC	AGAGAGAGGT	180
CCACCCCAAG	CAGCCTGAGC	CCTCAGCCAC	CCCCCAGCTC	CCTGGCAGCT	CCCCTCCACC	240
TGCCAATGTC	AGCGCCACAC	TGGTGTCTGA	AAGGAATAAG	GAGAACAGGA	CAGACTAACT	300
TTTTAAATGA	TATGAAGTAA	ACTCGAG				327

## (2) INFORMATION FOR SEQ ID NO:770:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 534 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:770:

GAATTCGGCC	TTCATGGCCT	AGTGGANTCT	TGGAGATAAG	CTGAGCTTGA	TGCATTGCTA	60
CCACACACTC	CAAACCATGA	AGAAGGTACC	GTGGGGCTTT	TTGTTGTTGT	GACAAAATCG	120
TAGGAAATGG	CGCCTGTATT	TCTTAATCTG	TTCTCTAATC	TTCTCATTAA	AAAGAACTTC	180
AGTTAGAACA	AGAGGGCCCA	TGGCTTTTAC	ATCCAGTCTT	TCTGCTTCAG	CAACGATTTT	240
TTTGTGAGAT	GAATCAATAA	CACCCTCTTC	TTTCTTTTTC	TTAACAAAAT	CAAAGAGGAT	300
ATTGACCCTC	TCCTCAATTG	TTCTTTCCAA	ATCATCACTG	AGTGTCAGAA	CTTTTGCATG	360
GTCAGTGAAT	TCATCCATTG	GACGCCCTTG	AGCTTCCTCA	GTTGTATCTT	CTCCCCAGTC	420
ATCATCTCTC	TCTTCTTCCA	TTGTATGTGG	AGGAGGATTA	ATTTCAATTG	GTGGTGGTGG	480
TGGTGGTGGT	GTCTCACTGC	TGGATACGGA	ATTGAATTCT	AGACCTGCCT	CGAG	534

## (2) INFORMATION FOR SEQ ID NO:771:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 408 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:771:

```

GAATTCGGCC TTCATGGCCT ACTAGAATGT GTGACTCTGT GGGGACTGCA TAGGTTTGT 60
AATTGACCTA TAGCTAAACC TTAATGTGTT TGTGTGTCTA TACATTGCTT TCCGCATTTT 120
AAGACATCCA GACGCTATTA CCAACATTTT CCTGTGCATT AACCTCTGCA TGTGAAAACT 180
TTTAACAGTT ACTGAACTAT GTAAATATGT GAATTTTTTT ATTTAGGTGG ATGCATTTTT 240
TGTCTGTTTA CTGCTCTTCT CAGCTTTATT CAATAAACTT GCATTTTAAG GGTGTATTG 300
GCAATTTTAA CTAAAATGT GCATCATGAT GGAAGGTGCA GACTTTTTTG GAAGTTTCCG 360
AGAGGAGGGT CTATAGACCA TTTGTCAGAA ATCAGATCAA CCCTCGAG 408

```

## (2) INFORMATION FOR SEQ ID NO:772:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:772:

```

GAATTCGGCC TTCATGGTGT CGTCTCCATT CTGATGCATC AGCTCAAACA GCTCTGAGTC 60
CAGGATCTGG ATGAGGGAGC GCATGTTGGC AAAGTGGGTG TCCATGGCAC CCCCCTTGGG 120
GAAGTTCTGG CTCATCCTCT TCATGAGGTG GCTGAAGCAG CTGTAGGCCA GCTGATCATT 180
GTCGAGGGTG ACCAGGAGAG GCGCCAGCAG ATCGCACATG CCCTGCACAT AGCCCCACGTC 240
CAGGTGCTCC CACACGTAGC TGCACATGAC GTCTCTGAGC CTCTCGAG 288

```

## (2) INFORMATION FOR SEQ ID NO:773:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:773:

```

GAATTCGGCC TTCATGGCCT AATCCAGTGA CTGACAAAGC AAAATTGCAT GAAATTTACA 60
TTTTTTTCT TCTTGTAATT TAAAACTTGG TTCCTGTATA CCTTCCTGGA TCTTTATACT 120
TTTGATCTT TTCTACCATT TCTGTAAAAC CTCAACTGCA GGGTGCAATA ATGGGCCTTA 180
TTTTCTATAT TTCAGCAGGA CAGTTGCTGA AAATGGGTTT AACTCCACT GGCATTATAT 240
CCCACACAAC TCGAG 255

```

## (2) INFORMATION FOR SEQ ID NO:774:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:774:

```

GCNTTCAGGC CNAAGGTACT TTAATCAGTC TAAATACTTG AACATTTTTA TTTCAGTGGT 60
AAAAAATAGA CTGAGGCAGA GTGAAGTTAT AAATTAGAAT CTAAAAATTT ACCCTTCAAC 120

```

ATTAATATTT TTTAGTGCCT CTAATATAAA ACACAGAAAA CCTATCTCAA ATATAAAAGA 180  
TGAATATAAA ATTATTAATT AAACAACNGG CGCTCGAG 218

## (2) INFORMATION FOR SEQ ID NO:775:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 257 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:775:

GCCTTCATGG CCTAGAAAGG AGCATCCCTG TTTTGGAGT CAGGACCATT CAGGGGGTGA 60  
ACGAGGCCCC GGCCAGGTGC CTTTGGAG CCTGGAATAT TAAAACCAGG ATGCCAAAAT 120  
TGTAAGTGA TCTCAGTCTT TACATTTAAC AATTATATAC ATTTTAAACA TGGAAGATTA 180  
CAGTATAATT TATTTAGGCT AATCAGAAGC TAATTATAGG CTATTTAAAA ATGTTAATTT 240  
GTAACACANT ACTCGAG 257

## (2) INFORMATION FOR SEQ ID NO:776:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 257 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:776:

GAATTCGGCC TTCATGGCCT AAAGAAACAA AGAAACAAAC CGTATATATA TATCTTCAGA 60  
GTAAAAAAT GGTGAGAACA AGAGCATTGT TTTATATATT TTTCAACTC TCTTTAACTT 120  
CTGGCTTAAT AGAAGACAGC TGCATTCTCA TTATTATTTA TTTATTTTTT TTTAGATGGT 180  
GTCTCGCTCT GTCACCCATG CTGGAGTGCA GTGGCGTGAC CTTAGCTCAC TGCAACCACC 240  
ACCTCCCCAG GCTCGAG 257

## (2) INFORMATION FOR SEQ ID NO:777:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 243 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:777:

AGCTTCATGG CCTAGTCTCA GGTTAAGTTT TTGCAGTAA TCTTCTTTC CCCTAGAAGT 60  
GAGTAAACT TTCTGTATCC CTTTTCTCC CCACCTATGT TCCCTAAATT AGTGATTCTC 120  
TTACAAGGAA TTATTATCGC CCCTGCAGTT TTGGAAGGAT ACCTCCAAAA TATATCTTGG 180  
GGACTTCGAT TTATAGAATT TGGTTTAAGC TTAGATTCTG AGTCCAGGG TACCTGCCTC 240  
GAG 243

## (2) INFORMATION FOR SEQ ID NO:778:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 309 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:778:

```

GCTGACAGGA GCATTATGAA GCAAATGGTC ATTGATACAG TTTCCTGAG GGAGTATAAC      60
ACTGGGATTT TGCAGCCTGT GGTGTTCAGT CTCCTGACCT CTATGCCAGC ACACAGACAG      120
CAAGAAGCAG TGGGGAAGTT TGAGCTTCAA GCTCTACATT GGTTCGACAA AATCAATTCA      180
TCACTGTCTC ATTCATTAAT GTGCTGTCTG ATACTGACAT TTGTCAATGG CTTGTTTCTG      240
GAAGCCCCTG GTCCTCAAGG CTGGTCAGCT CTACAGTCAC AGCCCCAGGG TGAACCCAG      300
CAACTCGAG                                     309

```

(2) INFORMATION FOR SEQ ID NO:779:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 255 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:779:

```

GAATTCTAGA CCTGCCTCGA GCCTGGGTGA CAGAGTGAGA CAATGTCTCA AAATAATAAT      60
AATAATTTCA ACATGATTTT TGGTGCGGAC AAACAAACCA TATCCAAACC ATTTACTCAT      120
CCTAGTTCAG GACAGTGTCC TGGGACTGAC ACAAGGGCTC ACAGCCAGCT AGCACTGTGG      180
GCTCTCACGG GTCCTTCTG CTGTTTATT TTAGTAGTTA TTTATTTCCA TTCCTCACTT      240
CCACTACCAC TCGAG                                     255

```

(2) INFORMATION FOR SEQ ID NO:780:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 156 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:780:

```

GAATTCTAGA CCTGCCTCGA GCTAATGGGT GCATGCTACC ACGCCCGGGT AACTTTTTTT      60
TTNCTGTTT TGTTTTGTTT TGTTTTGAG ATGGAGTCTC ACTCTGTTGC TGAGGCTGGA      120
GTGCAATGGC ACGATCTCGG TCACTGCAA CTCGAG                                     156

```

(2) INFORMATION FOR SEQ ID NO:781:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 280 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:781:

```
GAATTCGGCC TTCATGGCCT ACTCCACACA TTCATCTCCC AAAGGACTCC TTGAATATTT      60
GCCCCAAAAC ATCAGCTCCC AGAAAACACC CCTCCCAGTC ACACACACAC CCAAATTCTC      120
CGATGTATTT TCATTTTTTT TCTCCTCTTC TCTTCTCTTT TTCCTTCCTT CCTTCTCTCT      180
TTTCTCTCTT NCCATCCCTC CCTTCCTTCC TCCCTCCCTT CCTTCCTCCC TCCCTTCCTT      240
CCTCCCTCCC TCCTTTCCTT CCTCCCCCCA CCCACTCGAG      280
```

(2) INFORMATION FOR SEQ ID NO:782:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:782:

```
GAATTCGGCC TTCATGGCCT AGCCGTGTTG TTA CT TGGTG AATGATAAGG CCTAGATCTG      60
GTAGTGCTTT TGTTGCTCT AAGGTCTATT AATTTAATGT AGCAATCTT CTTTTCCTT      120
TTTCTTTTCT AACTTCACAT CAACCTAACT GGCTACCTAA ATGTTTCATTG AATGACTGTT      180
TTTGCTTTGG GATAGAATCC TCCTTTTTTA TTTT TAGGGT GTTAAATTGA TATAGTATTG      240
TTTAATAGCT AATAAGATAC ATTTTGGGCT AAGTTTCTTA GGCCATGAAG      290
```

(2) INFORMATION FOR SEQ ID NO:783:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:783:

```
GAATTCTAGA CCTGCCTCGA GAATGGCTTT GCAGATCTGG GATCTTGTGT TCCTTCTTTC      60
TGGGTTGGTT TTATACGTTA ACTGTCAGAG GCATATGCCA CTTTATTCAG GTTCCTCGAG      120
```

(2) INFORMATION FOR SEQ ID NO:784:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:784:

```
GAATTCGGCC TTCATGGCCT AGTTTAGGTC AGTAGCAAAT GGGCCCACTG GGAGAGAGTA      60
TGCCCAGAGT TTGGAGAGGG TCAGGGTGTC GGGTGCTGGG ATGAGGGCTT CATGTTTGGA      120
AGACGCAAGG TAGAGAGCAA GAGAGGAGGA AAGGTAGAAC AGGATGGAGG GCAAGACCTG      180
```

TGTAAGAAGA AGTCTTAAAC TGTAACATG GGTGTAGTGA GGGTAGTGTG GCTAAGAGGA 240  
 AATGGATCCA GATGGGCTTG ATGGGTAGCA CTCGAG 276

## (2) INFORMATION FOR SEQ ID NO:785:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:785:

GAATTCTAGA CTTGCTCTCA GGCAGTGAAG GACTGGCACA TTGTGTAATA AACAGAATCA 60  
 AAGGCAGAAA TTAGATTACA AGCCACCTGA TGATGATAAA ATCAATCACC CTCATCAAAG 120  
 GGATTGCTT TGTGTGTGTT TTTCTCTTTC ATTCTTGTGG ATGCAGACAG GATATTGAAC 180  
 AGCAGCTGGG CTCCTTGATC TTGGCAACAG ACATCAACAG GCAGCGTCTC GAG 233

## (2) INFORMATION FOR SEQ ID NO:786:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:786:

GAAGATTTTG CCACTCTAAG GAGAGGTGAT ATTTGTATTT TTCTTTTAC TGAAACCAGA 60  
 TCGTGAGACA CGCTTTTCAT TCATACTGA AACTTGATAA AATGTTTGGC TTTATATTAA 120  
 TTTTCTCAAT TATAAGTGTG GGAAATGAAT TCGTTGATAA CCCTTTTCAA GTAAATGAAC 180  
 TGATTAGAAC CAGTAAGCTC GAG 203

## (2) INFORMATION FOR SEQ ID NO:787:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:787:

GAATTCGGCC TTCATGGCCT ACGAGATTGT CCTGGGTCAC ATAATGCCAG CTGAGCGTAA 60  
 AAAGCCAGCA AGTATGGAAG AAAAAGACTC TTTACCAAAC AACAAGGAAA AAGACTGCAG 120  
 TGAAAGGCGG ACAGTGAGCA GCAAGGAGAG GCCAAAAGAC GATATCAAGC TCACTGCCAA 180  
 GAAGGAGGTC AGCAAGGCCC CTGAAGACAA GAAGAAGAGA CTGGAAGATG ATAAGAGAAA 240  
 AAAGGAAGAC AAGAACCTCG AG 262

## (2) INFORMATION FOR SEQ ID NO:788:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:788:

GAATTCGGCC	TTCATGGCCT	ACAAACAGCT	GGGAATGTCT	CCAAGCCAGA	GTGGACTACT	60
AGTAGGTATT	CGTACTTCA	TTGAATTCTG	CAGTGCCCCC	TTTGGGGTG	TAGTGCAGA	120
CCGCTTTAAA	AAAGGCAAAA	TTGTCCTCCT	CTTTTCTCTT	TTGTGTGGG	TTTTATTCAA	180
CCTGGGCATT	GGATTTGTCA	AACCTGCTAC	CTTGAGATGT	GTACCAAAGA	TTCGCCAAC	240
AACTACCCC	CAACTCGAG					259

(2) INFORMATION FOR SEQ ID NO:789:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 152 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:789:

ATACTTTAAG	TTCTGGGATA	CGTGTGCAGA	GCATGCAGNT	TTNTTACATA	GGTATACACG	60
TGCCATGGTG	GTTTGCTGCA	CCCATCAACT	CCTCATCTAC	ATTAGGTATT	TCTCCTAATG	120
CTATTCCTCC	CTTAGTCCCC	CGTCCCCTCG	AG			152

(2) INFORMATION FOR SEQ ID NO:790:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 241 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:790:

GAATTCGGCC	TTCATGGCCT	AGGCAAATTT	GGCACTGAAT	ATGTACTGGA	CTGTGATTAT	60
TTTTATTGTT	TTTAAAGTCA	GCTTCCCTCC	CTCCTTCCTC	CTCCCTCCTT	CCCAAGCTGA	120
ATCTGAACCA	AGGAAGTCTT	CCTACAGAGC	CACTGACTGG	TCCCCACTAA	GGCAGGGGTG	180
GAGGGAGGGG	CAGGATGTTT	TCCTCTCCAG	CCTTTGTCTT	GCAGCAGATC	CCCAACTCGA	240
G						241

(2) INFORMATION FOR SEQ ID NO:791:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 182 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:791:

GTATTGACT CAAAGTATTT TTTGACTGAT AGCAGTATAG CTCCCTCATT CCCTGCTCTC	60
TTTTGGTTAT CATTTGCATG AAATATAATT TTCTATCCCT TTACTTTTAC TGTGTCCATA	120
AAAGTGAAAT GAGTCTCTTA TGGGCAGGAT ATAGTTGGGC AATTTTATA CTAATTCTGC	180
CG	182

## (2) INFORMATION FOR SEQ ID NO:792:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:792:

GAATTCGGCC TTCATGGCCT ACAATCTTCT TGGCCTGGCA CTAAGGACCT ACTACAGACT	60
GGCACTGAAA TATCTTCCCT ACCTTATCAT TCCTTGTGCT TCTCCACAAG CCCACTCTTC	120
CCCTTCATCA TACATGTGCC GACCTTTCCT GTCTCTTTTA CTTTGAGCA CCAAATGCTT	180
TCTACTTTGT GGTCTAGGAG GAACACATGT CACTTTTGTA AGCTGCTCGA AAGCAGGGGG	240
CACACCTTCA TCCTTGTTTT CCACACAACA CCAA	274

## (2) INFORMATION FOR SEQ ID NO:793:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:793:

AATTCGCCTT TCANGCCTAG TGAGTAGTTA TCAACACCGG AGATGCATTA GATCAATCTC	60
TGGGGGCTTC TTCCTGGACC TGCTTCCATA TACACTTATT CATTTTGTCT TCACCGGACA	120
TGTTAACTT CCAGAGTGAC TCTAATGTGC AGACATGGTG AACATCATTC GCTTAGCTGC	180
ATGTCAGCGC TCACTCAATG TCTGTGAACA GTGAAAGCTA CTTATTCTAC TTATAAGTTC	240
ATTAAGTCTG TGTATAACTA TTGCAAAGCA GAATAGTTGT CCCAGCCACC TGTGTTTGGG	300
GAGATGAAGC TGGGAGGCCA TCAACCTTCT TTGCAATAAA TTTCTCACG TTTTGTCAAG	360
CAACCTGTTT TTTGTATTCT CAGCTAGAGG CTTTCATTCT CTATCCCCCA CTCGAG	416

## (2) INFORMATION FOR SEQ ID NO:794:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:794:

GAGATGGATG TCTCTCTTG CCCAGCCAAG TGTAAGTTTCT GCGGGATTTT CTTGCTGGGA	60
AGCGTCTGGC TGGACTATGT GGGCTCCGTG CTGGCTTGCC CTGCAAATTG TGTCTGCAGC	120
AAGACTGAGA TCAATTGCCG GCGGCCGGAC GATGGGAACC TCTTCCCCCT CTTGGAAGGG	180

CAGGATTCAG GGAACAGCAA TGGGAACGCC AGTATCAACA TCACGGACAT CTCAAGGAAT	240
ATCACTTCCA TACACATAGA GAACTGGCGC AGTCTTCACA CGCTCAACGC CGTGGACATG	300
GAGCTCTACA CCGAACTTCT CGAG	324

## (2) INFORMATION FOR SEQ ID NO:795:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:795:

GATTCGGCCT TCATGGCCTA GCAAAAGGGA CAAGGGAGAG AACAGGAGTA GCAAAAATAA	60
AATAAGAAAT TATGATGCTG CTTTACCAG AGACAAGCTG CTGCCACCAC TAGGCTGGAA	120
CCTACAGGCT GCACCTGTCC CTAATTAGGG TATTGGATAC TATTCACACT GTCCTGCAA	180
CAACTGCTAG CCTGTTCTAA TCAGTAACTT CTCTCTTCTT CCTGTCTTCT CACCCTCCAG	240
TTCTCTCTAA CAGGAACCCA GCTGGCAAAG ATGTCTGGGA AATGTCATTT GCATTCTCAG	300
CCCCAGCAGT GCAGAAAGGT AGGAGTGGGG CTGCGAAACA ACAGAAAAAT AAGGACCATA	360
GGTGACAAAG GAAATGCATA TACACTTCAC AGATGGCCCA TAAACATATA ATACAAAGAG	420
GTGCCTCGAG	430

## (2) INFORMATION FOR SEQ ID NO:796:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:796:

GAATTCGGCC TTCATGGCCT ACTCATGAAA TGTCCCAAAG TCTTCTCATT CTGTTCTTCC	60
CTCTCCTTTT CTTTGGTCTT ACTTCTGTAG ACTCTAGCAG AGATGGCATC CTGGGATGGA	120
ATGGCAGAGA TCTGATGCAG TGGCATGCTC ATCCCAACCT CTTATCTGGT CGTCTTCTTC	180
ACAGAAGAGA GTCTCCACTG GTAGAGTCAT TTTGGGCCAT GGATTTCAAG CTATGCTTTC	240
CTTCTGGCAC CCCGAATGTA CGCAGGTCTC TCGAG	275

## (2) INFORMATION FOR SEQ ID NO:797:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:797:

GCACAATATT TCAAGCTATA CCAAGCATAC AATCAACTCC AAGCTCGGAA TTTTAATTAC	60
GAGGAGGTTA GTTGTGGCAA TAAAATGAT TAAGGATACT AGTATAAGAG ATCAGGTTCC	120
TCCTTTAGTG TTGTGTATGG TTATCATTG TTTTCGAG	157

## (2) INFORMATION FOR SEQ ID NO:798:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 249 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:798:

```

GAATTCGGCC TTCATGCCAA ATGACCAGCC CCTACTGAAG TCCCCAGCAC CTCCTTTTCT    60
GCATGTAGCA GCCCTGGGCC AGAAGCAAGG GATCCTGGGA GCTCAGCCTC AGTTGATCTT    120
CCAGCCTCAC CGGATCCCCC CACTCTTTCC TCAGAAGCCT CTGAGTCTCT TCCAAACATC    180
CCACACACTT CACCTGAGCC ACCTGAACAG ATTTCTGCC CGGGGCCCTC ATGGACGGTT    240
GGGCTCGAG                                     249

```

## (2) INFORMATION FOR SEQ ID NO:799:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 303 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:799:

```

GAATTCTAGA CCTGCCTCCC CCCCCCCTT TCAGAATAAT TTACATAAAT ACTCCTGAGT    60
TCAATTTTTT TNAATTTTTT TTCTGCTTTT ACTTATTACC CTTAAGTGC TTGCTTACTT    120
TCTCTGATAA TTTACTTTCT TCTACTCTGT GATTTCTTTT ACAAATCAAT GAAATGGTGT    180
TGTCTTGTTT TCTCAAGTTT TTTCTGTGTA CCTTTCCTGT GGTCACTGG ACATTCCAGT    240
CCGTTTTTCA CACTCTCCCT CTACCTTCTC CCCAGTTCT TTAAAGAGAC ACATAATCTC    300
GAG                                     303

```

## (2) INFORMATION FOR SEQ ID NO:800:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 405 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:800:

```

GAATTCGGC CTTATGGCC TAGCCATGCA ATATCTTTTG CATTACAGTG CAGTCTTTGA    60
GAAGAGCCAA GTGGGTGAGA GGTATATTTT CGGTGGTAGT TGAAGAGAAG GACAAATTAG    120
CACAGGAACA AGAAGTTCAT GTAGTTGTGT TTGAAGGCAG TAGAATTGCC TTTTAAAGT    180
CATATCTGGA TGTTAAGCTC TCTCTGGGAT CCAGTTATTA GGATGAAGAA ATTCTGCCGT    240
TTAAGTGCCT GCCATTATA GAGGTTGCTT GTAAGTTGTG TGGCTAGGTA ATTGTGCTGT    300
GTGAATTTTC TACTCAAGGT TGGTTGGCA GAAAGTAGAA TTCTGAGTCT GGGTATAAAG    360
GGGTTTACTA ACATGGGAGA GATTGTGTG GAACCCAAAC TCGAG                                     405

```

## (2) INFORMATION FOR SEQ ID NO:801:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 390 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:801:

```
GAATTGGCCT AATTAGCATC CTCAAGGACA CCAAAATCAC GTGTGAGGAG AAGATGGTGT    60
CAATGGCCCG AAACACGTAC GGGGAGTCCA AGGCCCGGTG AGGGAGGGTA TTGCCCTCCG    120
TGAGCACAGA GACTCTCCAT GGGAGGGGGA GCAGTATTCT CCTGGATCCT GGGGCCTGGG    180
TGGGCTGGGG GACAGCTGAG GATGGGCTTA GCAGATGAAG CTTGCCAGCA AGGCCAAAGC    240
AAACGGTTTC TCCTGTGGAT AGTGGACAGA GACCTTTGTA ACCAATGGAA TTATTCATTT    300
TTCTCTATCT TTTATTTTTT CAAAGATATT ATTTGACTCT ATCAAAAGTC TCTCCTTTTT    360
AAACCTTTTC TTATGGCGGG CTATCTCGAG    390
```

(2) INFORMATION FOR SEQ ID NO:802:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 231 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:802:

```
GAATTCGGCC TTCNTGGCCT ACTTTTGGAC CTTCTGAGTT TTAGTTTGTC CACTGAGTTT    60
TAGGTNAAAA AGAAAAA AAAAGAAAAA TTATCTGTAA CCTCAAGACT TTTTATGAGG    120
ATTATGATTT TACTGTGTTT GATAATAAAT GCCTTTTGCA TGCAGTGGTT TTCAGCATAC    180
AGTTATGAAC ATTCCTAGT GGATGAGCTT AAAAAAGGGG AAAAGCTCGA G    231
```

(2) INFORMATION FOR SEQ ID NO:803:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 492 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:803:

```
GGGACAAGGA CCTGTGCAGT GGCCTGACAT GACAGACGGA CCTGNTCAGC GTCCTATTTG    60
CAGTGATGTT CGAGTTTAGC CACCGTACTG TGGACATGCA CCCAGACAGC GGATTAAACG    120
TTAGTGTGTA CCCTATTCCC AGAAGAAAGG GTCCAAGAAA CACCCACACA GATCCCAAAT    180
GCAGCACACC TGTGTGTGGG CCTTCATCTT TTGGAGCCCA CCAATGCCTG CCATCCCTAA    240
CAACTGCCTT CGCACCACC AGGGATCAAG GCATTCTGTT TTTCCGAACG TGCTCCGACA    300
GTGGAGAAGT GCAGCATGGG AAGGTTGTAT CTAGGAACCT GAAGCAAATA AATTCCTTTT    360
AATTCATGCT TGTGATCCCT GTTATTCTGT CTCTGAAC TGCCCTTTATG CTCCAGATTA    420
GCTTTGAATC TTATTGCTAG ATTCTCCAAT CTGTTTACAA AATAAATGCA CCTAATCTTC    480
GCCTGCCTCG AG    492
```

(2) INFORMATION FOR SEQ ID NO:804:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 444 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:804:

```
GATACATAGT TCAATTCAGT TCAATCAAAA CCATTCAATA CATATTTACT GAGTCCCTTC      60
TGGTGTCAG GCACTGTTTC AGGCACTTGT GATATATCAG TGAAAAAAAC AAAGGCCCTC      120
GCCCACATGG AGCTTACATT ATAGCCAGGG GAAACAACAG TATACAATAA ACACAAATAT      180
GTGAAGTATC TAGGGTGATA GGTGATATGA AAAACATAGA GCAGGTGAAA GGGGTATGGG      240
ATTCTCGAT CTGGAAGGTA GACAGCTGCA GTATTAAATA GTATGGACAG GATAGGCTTC      300
AGTAAGAAGG CAACAATTGA GCAAAGATGA GTAGGTAAGC GTATAGGGCA TCTGCAACAG      360
CTAGTGAAAC GGCCCAAAGG TTAGAACAAG GCTGGAGTTC GGGAGAGGTC TGGGCTGGAG      420
ATGTAGNCCA TGAAGGCCGA ATTC                                         444
```

(2) INFORMATION FOR SEQ ID NO:805:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 352 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:805:

```
GAATTCGGCT TTCATGGCCT ACAAGAAGCT GGAGGAAAAA AATACGCTGG CTCAGGGCTT      60
TCAGAGAAGA GAGGAAAATG GTACAGGAAG ATGAAAAAAT TGGCTTTGAA ATTCTGAAA      120
ACCAGAAGAG GCAGGCTGCA ATGACTGTGA GAAAAGTCCC TAAGCAAAAA GGTGTCAACT      180
CTGCCCGTTT CAGNTCTCTC TTCTTACCCA CCACCGCAGG ACCCGTTAAA CCACGGCCAG      240
TACCTGGTCC CCGACGGCAT CGCTCAGTCG CAGGTTTTTG AGTTCACCGA ACCCAAGCGC      300
AGCCAGTCAC CATTTTGGCA AAACCTTCAGC ATGTTAACCC CCATCACTCG AG          352
```

(2) INFORMATION FOR SEQ ID NO:806:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:806:

```
GCACCCCGGG AGCTGAGTGA TTGCAGAAAC TGGCCTTCCA TCTCTCTCAG ACACCAAGCT      60
GCAGATCCAG GCTTTTCTGG GAAAGTGAGG CCACCATGGC TCTGGAGAAG TCTCTGTGCC      120
GGCTCCTTCT GCTGTCTCTG ATACTGCTGG TGCTGGGCTG GGTCCAGCCT TCCCTGGGCA      180
AGGAATCCCG GGCCAAGAAA TTCCAGCGGC AGCATATGGA CTCAGACAGT TCCCCAGCA      240
GCAGCTCCAC CTACTGTAAC CAAGGTCTCG AG                                         272
```

(2) INFORMATION FOR SEQ ID NO:807:

- (i) SEQUENCE CHARACTERISTICS:



- (A) LENGTH: 277 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:807:

```
GCCTTCATGG CCTAGGAGAA GAGCGGAGCG TGTGAGCAGT ACTGCGGCCT CCTCTCCTCT    60
CCTAACCTCG CTCTCGCGGC CTACCTTTAC CCGCCCCACC CTCAGGAACCT TTTGTTAGGA    120
AAAAATTGAA AGAACTTAAG TCTCGAATGT AATTGGAATC TTCACCTCAG AGTGGAGTTG    180
AAACTGCTAT AGCCTAAGCG GCTGTTTACT GCTTTTCATT AGCAGTTGCT CACATGTCTT    240
TGGGTGGGGG GGAGAAGAAG AATTGGCCAA GCTCGAG                                277
```

(2) INFORMATION FOR SEQ ID NO:808:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:808:

```
GAATTCGGCC TTCATGGCCT AAACACAGAA AAACCAACTT TCTGATACCT TTCTCCCTGT    60
ATGTTTATCT TCTTTGTCTA GTTTTTTCAGC AGAAATATGC CCGTTTCCCC CTGATAATTC    120
CCTTCCTTAG AGACAGCATA ATTGTAGACC TGGCCAGAGA AATGCTGAAA ACAAAGGGAA    180
CCCCCTTGAG CCCAGCCCTT CACCTGCTCT TAGCACTTCT TCAGAGGTTT ACTCTGGAGT    240
GAATGAAGTA GTGTGACCAG AACTCCTGG CACCTCGAG                                279
```

(2) INFORMATION FOR SEQ ID NO:809:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:809:

```
GAATTCGGCC TTCATGGCCT ACCTTCGCCT TCTGTCTTTC TGCCTCCTAC TAGCAGGTGT    60
TTACTCCAAT TCCTATGGGC CAGAGTTTGC TCACTGCAGA GAAATACAGT GGAATTCGCT    120
GGGCAATGAT TTGGCTTATG AAGACTTTAG TTTCCCCATC TTTCTTCTTG AAGATGAAAA    180
TGAAACCAAA GTCATCAAGC AGTGCTATCA AGATCACAAC CTGAGTCAGA ATGGCTCAGC    240
ACTCGAG                                247
```

(2) INFORMATION FOR SEQ ID NO:810:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 561 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:810:

```

GAATTCGGCC AAAGAGGCCT ACCCGGGCTC AGTGTGCCGA CTTCTGACTG CAAATGATCT    60
CATTTTCTAA AATCTTTCTC CCATTCTCCT TTAAGAAAAA ATCTTAGTTA TTAATAATCT    120
GCCTCACAAA CTTAGAAATG CTTAGAGTA AGTATCTGAG AAGCAAGCCC ACCCCACATC    180
CACCATATAT CATCGTTTCT GTTAAGGGCC ANCCCATTTT TTCAGACAAA TTCTATCTTC    240
TTCCTCCCAT CCCACTTACT TTTGACTTTG AAGGTGGATT ATCTCATCTC AAATTTCTCT    300
NCCAGAATAG NACCACATTT CAGCAAAATA TTGGGTGGCT GGTTCCTTTC TTCAAGACCC    360
ACCTGCATCT GTGTTGGTCC TCTATGTGAG GAAGGTCCTC TATGTGAGAA GATCTGAGGG    420
GTAGGCAGGT TTAATGGAC TAAGATTTTT TTTATATGTA TAAGGGGGGT GGGAGGAGGA    480
TTTTAGAAAA CTAGATCCAT TGGCCTGCAG TTAGAAGTCG AACACTGAAC TTGGGAAGGC    540
TTTCTGTGGC CGAACCTCGA G                                561

```

(2) INFORMATION FOR SEQ ID NO:811:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:811:

```

GAATTCGGCC AAAGAGGCCT ATCAATTNGT TTTNTTACTT GGTA CTGTGA TTTATTATNT    60
NTAATTATNG TNAANTNNTA AAGCTCAATT TTACCAGCTT CAGCAGTTTT AAGTGATAG    120
TTGCACAACA CNACATAACT CATCTAAGGT GAATTATACT GTAATTTTCT TTTNGTGCTT    180
AGCTTTTTCG NATTACCATA GTATCCTGAA GTTTTGTGAT TGTNGTACCA TGAGACAGGA    240
TGTTATAAGA TTAATATTTT AATGTATATA TATGCCTAGC ATATTTTCNT TATGCATGCA    300
GCCACTCGAG                                310

```

(2) INFORMATION FOR SEQ ID NO:812:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:812:

```

GAATTCGGCC AAAGAGGCCT AGGCGGCAGG AGGCAGTGGC GTTGGTGGGA AGCGCAGCTC    60
GAAAAGCGAT GCCGATTCTG GTTTCCTGGG GCTGCGGCCC ACTTCGGTGG ACCCAGCGCT    120
GAGGCGGCGG CGGCGAGGCC CAAGAAATAA GAAGCGGGGC TGGCGGCGGC TTGCTCAGGA    180
GCCGCTGGGG CTGGAGGTTG ACCAGTTCCT GGAAGACGTG CGGCTACAGG AGCGCACGAG    240
CGGTGGCTTG TTGTCAGAGG CCCCAAATGA AAAACTCTTC TTCGTGGACA CTGGCTCCAA    300
GGAAAAAGGG CTGACAAAGA AGAGAACCAA AGTCCAGAAG AAGTCACTGC TTCTCAAGAA    360
ACCCCTTCGG GTTGACCTCA TCCTCGAG                                388

```

(2) INFORMATION FOR SEQ ID NO:813:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 460 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:813:

GAATTCGGCC	AAAGAGGCCT	AAGCAAGCTC	TGCTTTAGTT	TCCAAGAAGA	TTACAAAGAA	60
TTTAGAGATG	TATTTGTCAA	GATTCCTGTC	GATTCATGCC	CTTTGGGTTA	CGGTGTCCTC	120
AGTGATGCAG	CCCTACCCTT	TGGTTTGGGG	ACATTATGAT	TTGTGTAAGA	CTCAGATTTA	180
CACGGAAGAA	GGGAAAGTTT	GGGATTACAT	GGCCTGCCAG	CCGGAATCCA	CGGACATGAC	240
AAAATATCTG	AAAGTGAAAC	TCGATCCTCC	GGATATTACC	TGTGGAGACC	CTCCTGAGAC	300
GTTCTGTGCA	ATGGGCAATC	CCTACATGTG	CAATAATGAG	TGTGATGCGA	GTACCCCTGA	360
GCTGGCACAC	CCCCCTGAGC	TGATGTTTGA	TTTTGAAGGA	AGACATCCCT	CCACATTTTG	420
GCAGTCTGCC	ACTTGGAAGG	AGTATCCCAA	GCTTCTCGAG			460

(2) INFORMATION FOR SEQ ID NO:814:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 225 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:814:

GAATTCGGCC	AAAGAGGCCT	AAAGTGCTTT	AAAACAATTT	TTCACTGTGG	ACAACCGAAG	60
ACCACAAAAC	ATTGAGAAAC	TACCATGACA	GACAGAGAAC	AAAATTACAA	AACAGAAAAA	120
GTTAAAAAAC	AGGAGAACTG	CACCACTGCA	CTCCAGTCTG	GATACCAGAG	AGAGACTCCA	180
TCTCAAACAA	AACAAAACAA	AACAAAAAAA	CCCCAAAAAC	TCGAG		225

(2) INFORMATION FOR SEQ ID NO:815:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 140 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:815:

GAATTCGGCC	AAAGAGGCCT	ATTTATCGTT	TAAAAAAGTC	AGTAGAACTA	AACATGAAAG	60
TGATTCTTCT	GATTTTITGG	GGGGTGGTTA	TTTGACATG	GAAACAACAA	CAAAAATGCT	120
TCAGATACAA	TTTGCTCGAG					140

(2) INFORMATION FOR SEQ ID NO:816:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 540 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:816:

```

GAATTCGGCC AAAGAGTCCT AAAACCAACA AGCCAGGCTG ATTTTCTAGA GGGATCAGTG      60
ATGTGGGGTA CAATGACACC TTCCCTGTGG CTTGTTATGC CTCCGGTTT GTTTTGAAT      120
CTTGGTTGCT GGTGGGGTAT TGCCCCCTCG GCTCCTCTAT GCTTTCGCGT GTGTGAAAAT      180
GCAGGAGTGG ACCACTGTGC ACAGCAGGAC CATGGCTGTG AGCAGCTGTG TCTGAACACG      240
GAGGATTCTT TCGTCTGCCA GTGCTCAGAA GGCTTCTCTA TCAACGAGGA CCTCAAGACC      300
TGCTCCCGGG TGGATTACTG CCTGCTGAGT GACCATGGTT GTGAATACTC CTGTGTCAAC      360
ATGGACAGAT CCTTTGCCCTG TCAGTGTCTT GAGGGACACG TGCTCCGCAG CGATGGGAAG      420
ACGTGTGCAA AATTGGACTC TTGTGCTCTG GGGGACCACG GTTGTGAACA TTCGTGTGTA      480
AGCAGTGAAG ATTCGTTTGT GTGCCAGTGC TTTGAAGGTT ATATACTCCG TGATCTCGAG      540

```

## (2) INFORMATION FOR SEQ ID NO:817:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 597 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:817:

```

GAATTCGGCC ANANAGGCCT ACTNNNAGGC CTGTCGANAN GCGTTGGGTN CTGANGTGAC      60
AGCTTTCCCC NTCCATGGGA CNCNTTCCA GACNNTCGNC ACNTCTNCTG AGGTGAATTN      120
NCTGTGGGTN TTANGTCTGG GGTGGANNTT CTCTCTCCCC NNNTCTNACT TCNGTAGATG      180
TGGACCTNGN CCNNCNNTCC ATTGGTCCNC TGCCCTGTGT CTCCAGGGTG CTGCCTCTGC      240
CTCCTCATAT CACCAGCGTC CCCACTGCCA CTAGTCTGTA GGGGGATTCC GGGCTAGGTG      300
CTCTTCCCAT TCGACTTCAA CCAACTTATA TAGCTCCATG GTGGCCTGGG CATCTTCCAC      360
AGAGGATGTC CGCTCTTCCC NACCTGGATA TCCCGGTTA GCAGCTTCTT GGTGAGATGC      420
TTCAGAGACA TGGTGGCATT CTCCGGGCAG TCAGCCTTCC GGTGAGGGG GGGGATATGG      480
GAGGTGTGTC GGGTGAGGGA CTTGGGGTGA AAGTACTGAA GGGCTTTGAA GTCGTGTGTC      540
ATGGCATGCC CCACCACTAT CTTNCCCTGT GAGTATCTTC AAGATCTGCC CCTCGAG      597

```

## (2) INFORMATION FOR SEQ ID NO:818:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 517 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:818:

```

GAATTCGGCC AAAGAGGCCT AGGAAATGAA ACGAATGCAT AAAGCTCTCC AGAAAGATCT      60
GCCAAGACCA TCAGAAGTAA ATGAACTAT TCTAAGACCC TTAAATGTAG AACCGCCTTT      120
AACAGATTTA CAGAAAAGTG AAGAACTAAT CAAAAAAGAA ATGATCACAA TGCTTCATTA      180
TGACCTTCTA CATCACCTT ATGAACCATC TGGAAATAAA AAAGGCAAAA CTGTAGGGTT      240
TGGTACCAAT AATTGAGAGC ACATTACCTA TCTGGAACAT AATCCTTATG AAAAGTTCTC      300
CAAAGAAGAG CTGAAAAGG CCCAGGATGT TTTGGTGCAG GAGATGGAAG TGGTTAAACA      360
AGGAATGAGC CATGGAGAGC TCTCAAGTGA AGCTTATAAC CAGGTGTGGG AAGAATGCTA      420
CAGTCAAGTT TTATATCTTC CTGGGCAGAG CCGTACACA CGGGCCAATC TGGCTAGTAA      480
AAAGGACAGA ATTGAATCAC TTGAAAAGAG GCTCGAG      517

```

## (2) INFORMATION FOR SEQ ID NO:819:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 332 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:819:

```
GAATTCGGCC AAAGAGGCCT ACTAAATTCT CATATATCTG TGTITCTAGA ATACTTTGCC      60
TTTTTGGGCT TAGTTAATGG TAAGATTCTC ATGTCTGTCT ACATAGGAAT ACTCCACCGT      120
ACAGGACACT GCTTCTGGG TTAGTTCAT TGATAATTG TCCGAATGCT CATAAACATG      180
TCTATAGGAA TACTCCAATA TATCTAGGAC ACAGTTTTCT CCGCTCCTGA ATACAGGCAG      240
ATTTGTTTC TTTCTGCCTC CCTGTGTTAA TGAGAAGGTA GTCCAGCAGG TTCTCTCTAC      300
CTCCTTGCTT TTTTTCCTCC TTAATGCTCG AG                                     332
```

(2) INFORMATION FOR SEQ ID NO:820:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 340 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:820:

```
GAATTCGGCC AAAGAGGCCT AACCTGCTCC GTGGAGCGCC TGAAACACCA GTCTTTGGGG      60
CCAGTGCCCTC AGTTTCAATC CAGGTAACCT TTAAATGAAA CTGCGCTAAA ATCTTAGGTC      120
ATACACAGAA GAGACTCCAA TCGACAAGAA GCTGGAAAAG AATGATGTTG TCCTTAAACA      180
ACCTACAGAA TATCATCTAT AACCCGGTAA TCCCGTATGT TGGCACCATT CCCGATCAGC      240
TGGATCCTGG AACTTTGATT GTGATATGTG GGCATGTTCC TAGTGACGCA GACAGATTCC      300
AGGTGGATCT GCAGAATGGC AGCACTATGA ATACCTCGAG                                     340
```

(2) INFORMATION FOR SEQ ID NO:821:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 518 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:821:

```
GAATTCGGCC AAAGAGGCCT AGGAGCTATA ATCTTGTAAC AGAGTCTACG TGATTGTAGG      60
ACAATAGGCA CCACACAAAT ATGAGGAAGC AGGTCAGAGA GCGGGCTGAC TTAATGATTA      120
ATGCTGAATG TGCTACAAGC TTGTTTCATT TTCATTTCTC CTCCTCCCTT TTTTCCTGAT      180
TAATTTAATA AAGTTCATAG GGGAGGCTTC AAACACATGA GAAATTAAAA CCTTTATTAC      240
CAGAGTCAGA GCCTGACTAT ATTGATTGAG TGAAGCTTTC CTTTATAAAA TGCAAAGCAT      300
GTAAACAATT CCAACACAGT AACATATTCA TGAGTTTTTA AATTCATGAG TTTTAGAGAA      360
AATATTTTAC TTAAAACCAG CACTTGATGA TCTCTGACAA TGTTATGTAG CCTGAACCTG      420
GAGTTTTGGC TGATGGGTTG TCTCAGCCTG TGACAGGTTT TAGCTGGCTT TGGTTCATCT      480
TGTATCACAC CCCCACTC ACATGCTCAC CACTCGAG                                     518
```

(2) INFORMATION FOR SEQ ID NO:822:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 139 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:822:

GAATTCGGCC AAAGAATTCT AGACCTGCCT CGTGCCTAAG GCAATTGAAT CGAGGGTTAA	60
GGGTTTCATCT TGCTAATGTC AAAAGTGACA CTAACAAGAT TCTTAGCCTC ATCCGCCAGA	120
TGACGGGCCT CCGCTCGAG	139

- (2) INFORMATION FOR SEQ ID NO:823:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 302 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:823:

GAATTCGGCC AAAGAGGCCT AAGATGAGAA AATCAAGGTT CTTAGATGTT CTGGAATTTG	60
TTCATTTTCA CATGATTGGA ACATTGTGGT CTTGTCTTTC AAGTCCATGT CTACCATACT	120
CCACAGACCC TTTTCTGTCC ACTTTGTCAC CTATAATTCT GAACTCCAAT ATAAAGACTT	180
CACCGTATTT GAAAGAGAAT AGTGGGAAGT CTGATGCTCA ATTTTGTGTA CAGAACAGTT	240
GCCTCTGTGA CATTGTAAGT GCTGAAATAA GAAAATCCCC TTTTGATTCA GGAGCTCTCG	300
AG	302

- (2) INFORMATION FOR SEQ ID NO:824:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 291 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:824:

GAATTCGGCC AAAGAGGCCT AAATCAGCAG TGAATCAGA ATCAATTGAG TGACATNGAG	60
TCAGTAAATC TCTGACTGCC TCAGTTACCC CATATGATAG TTTTGAGGAT GGGAACATTG	120
AGAGAGTTGA TTTGGAAGCA TATCAAGAGT AAAAATTCCA ACATTTTtag TTCCTTTAAG	180
TTAAATCCAG GCACTGTCTT TCCTGCAAG TCTCCTGTTT CTTTCAGATT GCACAGGTGA	240
GAGTGCTCAG ATTAGGGCTG GAGGTTGTAA ACCATTGCTC CCGTCCTCGA G	291

- (2) INFORMATION FOR SEQ ID NO:825:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 545 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:825:

```

GAATTCGGCC AAAGAGGCCT AAGCTTTTTT TTTTITACA GACTTCACAG AGAATGCAGT      60
TGTNTTGACT TCAGGTCTGT CTGTTCTGTN GGCAAGTAAA TGCAGTACTG TTCTGATCCC      120
GCTGCTATTA GAATGCATTG TGAAACGACT GGAGTATGAT TAAAAGTTGT GTTCCCCAAT      180
GCTTGAGTA GTGATTGTTG AAGGAAAAAA TCCAGCTGAG TGATAAAGGC TGAGTGTGTA      240
GGAAATTTCT GCAGTTTAA GCAGTCGTAT TTGTGATTGA AGCTGAGTAC ATTTTGCTGG      300
TGTATTTTGA GGTAATATGC TTTTGTTC TTTCTGGTGG TGGGAGGGGA CTGAAGCCTT      360
TAGTCTTTTC CAGATGCAAC CTTAAATCA GTGACAAGAA ACATTCCAAA CAAGCAACAG      420
TCTTCAAGAA ATTAACTGG CAAGTGGAAA TGTTAAACA GTTCAGTGAT CTTAGTGCA      480
TTGTTTATGT GTGGGTTTCT CTCTCCCCTC CCTTGGTCTT AATTCTTACA TGCAGGGAAC      540
TCGAG                                         545

```

(2) INFORMATION FOR SEQ ID NO:826:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 91 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:826:

```

GAATTCGGCC AAAGAGGCCT AGGTGGTGGG ATCAAGGCCA TGAAGGACCT GTTTATGCGG      60
TGCATGCTGT TTACCAGAGG AGGGCCTCGA G                                         91

```

(2) INFORMATION FOR SEQ ID NO:827:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:827:

```

GAATTCGGCC AAAGAGGCCT ACTAAGAAAT GCTATTGGAT CTTAGTTTG TTCAGCTTTA      60
TTTTTCTTAT AAGGATGAAA GTGTTGACTT ACAAGCTCTT TATATATCAG ACCAGAACT      120
ACTTTTTAAA AAATATAAAA TGTAATCACC ATCTAAAGCA CTTNGCACAA TGCATGGCAT      180
GTAGTGAGCA CATATTTTGA GCTCTTACTG TTATTTATTA TTATCCATT GAGAAAAACA      240
TTTCCTAATA ATAATGAAAT GACAACATGA TATGGTAGCA TCACAAAAAT CAATACATCT      300
TTCTAAACAT ATTAGAAATT ATTTCTGTAT GAAATAACAG GTTTAAGGAA AAAATTTAAT      360
GTGGTCAGAA GTGTGCAATC AAAATAATGA GATGACATTG GCATGAAGAA CAAACTCGAG      420

```

(2) INFORMATION FOR SEQ ID NO:828:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:828:

GAATTCGGCC AAAGAGGCCT AGAATTCTAG ACCTGCCTCG AGCTTAGGGT GACAGAGTGA	60
GACTCCGTCT CAAGAAGTAG AAGAGTCCTG AAGTTCCTTC TGGAGTATTG GTGTGATAGA	120
AGCATTAGTA GTTCTTTTTA TGTTCTGGAG AACTTCTGTG CACATAAATG TTTATAGATA	180
TATACCCCGT TTGTATACCA AAGGAATCTT CATTATTTT CACTGAACAA AACACCTTAG	240
AGAACATTTT GTTTGTTTTG CCAATCAATC TAATTCTTTT AAATGACCAC ATAGTATCCC	300
ACGGTAAGTT TTTTGTTTTG TTTTITTTAA AATCATGATT TGTTTAAACA TGTCCTATTG	360
CTCTCGAG	368

## (2) INFORMATION FOR SEQ ID NO:829:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 344 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:829:

GAATTCGGCC AAAGAGGCCT AATGTTTTTC AATACCTCAG TATATTGTAG GGACTTGTTG	60
AGAACTTGTT GAATGAATAT ATTGTTTCTG GTTACCATT ACTCAGTATT TTAGTTGTCA	120
CATCTTAAAA TAGATAATCA TTTTACCAT CACACTCCCT TCATAAGATA TAGAAATAAA	180
GCCCTTCTTG TTTGGAAATG GTGGTATTTT GGTTTTACTT TTTTAAAGT TACTGTGTGA	240
AGGTACTACT TTAATATTTT TATTTAACTT TATTTGTTTG TCTTTAGTAG GACTAAGCTA	300
ATGAGAGCTT TGACTTGCTT AAACGTTGGG CAGGAAAACT CGAG	344

## (2) INFORMATION FOR SEQ ID NO:830:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 351 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:830:

GAATTCGGCC AAAGAGGTCT AGAAGACTTT TGTATTTTTG ACTTTGCTAG TTGTGGCAG	60
AGTGGAGAGG ACGGGTGGAT ATTTCAAATT TTTTATAGTAT AGCGTATCGC AAGGGTTTGA	120
CACGGCTGCC AGCGACTCTA GGCTTCCAGT CTGTGTTTGG TTTTATTCT TATCATTATT	180
ATGATTGTTA TTATATTATT ATTTTATTTT AGTTGTTGTG CTAAACTCAA TAATGCTGTT	240
CTAACTACAG TGCTCAATAA AATGATTAAT GACAGGATGG GGTTCCTCTG TGCTTTTACC	300
AGTAGCATGA CCCTTCTGA AGCCATCCGT AGAAAGTACC TTGTCCTCGA G	351

## (2) INFORMATION FOR SEQ ID NO:831:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 338 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:831:



GAATTCGGCC AAAGAGGCCT AAAACAAGAT CCACTGGAGG GTCATGTCTG AGTTGTTCTC	60
TTGATGATTT TGGCTGATTA TCTTAATGCC CTTTTCCATT TCTGATGCTC TTGTTCTACA	120
TTTTGGGTGA AAATACCAAT ATTTCTAATT CTGTATCACA TCATCTCACT GTGTAGCAAG	180
GCAGGTCTCC ACAAATTACC CCGTTCCACC TGGAGAGCTC CTTATTGACT TAACGTGATA	240
TTCAGCCAGG TTTTCTTCC TGTAATAGTT GCTTTGCCTT TAGCAAATTG CCTGGATCAT	300
TGACCTTTCT TAGCCCATGC ATAAATGCC AACTCGAG	338

## (2) INFORMATION FOR SEQ ID NO:832:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:832:

GAATTCGGCC AAAGAGGCCT AATATTATAG AACCAACATA TGTACATTTT TCATAGAGTT	60
TGGGAATGAA ATAGTAAAAG GTATATAGAA AACTAAGAAA AGGGAAAATT CTGGGGGGCT	120
GGGATGAGGA AGTGATTAGC ACCAGGGAAA ACCAAAGTTT ATACCAGAAA GGAACCTAA	180
TATTAGGCTG CCATATTAAG CCATGTGGCT GGGCTACATT GTGTTAAGTC ACTGATGAAT	240
GATCTAAACA AGAGTCTGGA TATAACCAAA TCAGGAAGGC TTGAAGAATG TGTGTGTTAT	300
TGGGGGGAAC GGTGTCTACA GTAGGAGGTA GATGGTTATG TAAACTAGA GAAAAGGAAC	360
TAATATAAAG TGTTAGTTGG AATATATTAA TAATTGTCAG TGAAACTCG AG	412

## (2) INFORMATION FOR SEQ ID NO:833:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:833:

GAATTCGGCC AAAGAGGCCT ACTGTGGGTT TATATTGATG TGTAACAAGT TGATTTGGAA	60
CACTGGACTC TCATTCTGTT ATTCTGGTTT TGTTTTTTTT GTTTTGTTT TTTTCTTTT	120
TAAAGGCAAT GAGCTAGTCC CAGATCTCGA G	151

## (2) INFORMATION FOR SEQ ID NO:834:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:834:

GAATTCAGCC TTCATGGCCT ACTCTCGTTG AAGATGTGAA TATCTGTCTG CAGGCATGCA	60
GCAGTCTACA CGCTCTGTCC TCTTCCTTGC CAGATGATCT TTTACAGAGA TGTGTTGATG	120
TTTGCCGTGT TCAACTAGTG CACCGTGGAA CTCGTATTCTG ACAAGCATTT GGAAACTGT	180

TGAAATCAAT TCCTTTAGAT GTTGTGCGGA TTGAATTCTA GACCCGCCTC GAG

233

(2) INFORMATION FOR SEQ ID NO:835:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:835:

GAATTCGGCC TTCATGGCCT AGAACTGGGA GGTAGAAACA AAAATGACTG AACATCTTTT	60
TATCCCCCAA TCGTTACAAA GCCTAAATAA CTCTAAACGG GATGGGAGGG CAAATTTTAG	120
GTCACTTGAC ATCCTGGAGA AGATATCCTA GGTCTGTCT CATTCCCTAG ACCGCATAAC	180
ACTCCAACCG TGTAGGCCAT GAAGATTGAA TTCTAGACCT GCCTCGAG	228

(2) INFORMATION FOR SEQ ID NO:836:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:836:

GAATTCGGCT TCATGGCCTA GGCTGGTGAT CCATGATGCA AATAATAATA ATAATGATGA	60
TTTTTTTAA TGTACAGCTC TCACACAAAT TTCATTTTGT GAACACACTG GTAAGTACAC	120
GATGCTGGGG CTTCACAAAT GTGGCGTATC CCACTGATGG CTCCAACCTG CGAGTGGGCT	180
CAGTTATGAA AAACTCGGGA GAGGACGGGT TGTCGCTGCT CGAG	224

(2) INFORMATION FOR SEQ ID NO:837:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:837:

GAATTCGGCC TTCATGGCCT AGGAGCTGTT GCACTTTGGG CCTTGGCAGG ACAAACACTA	60
AAACAACAAA AATATATGGC AGAACAAATT GGATACAGCT TTATAATAAA TATGCTTTTG	120
TCACCATCAG CTAAATGCA GTATGTTGGT AAGTTATTTT CCTATTTTA TTTTATTTT	180
TTAGAGACAG GATCTTGCTC TGTGCCCCAG CCTGGTGTGC AGTGGCACAA TTATAGCTCA	240
CTGCAGCCTC AAACCCCTGG GCTCGAG	267

(2) INFORMATION FOR SEQ ID NO:838:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 514 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:838:

```
GAATTCGGCC TTCATGGCCT AATCAAACCTC AACTACGCC CTGATCGGCG CACTGCGAGC      60
AGTAGCCCAA ACAATCTCAT ATGAAGTCAC CCTAGCCATC ATTCTACTAT CAACATTACT      120
AATAAGTGGC TCCTTTAACC TCTCCACCCT TATCACAACA CAAGAACACC TCTGATTACT      180
CCTGCCATCA TGACCCCTGG CCATAATATG ATTTATCTCC AACTAGCAG AGACCAACCG      240
AACCCCTTC GACCTTGCCG AAGGGGAGTC AGAACTAGTC TCAGGCTTCA ACATCGAATA      300
CGCCGAGGC CCCTTCGCC TATTCTTCAT AGCCGAATAC ACAAACATTA TTATAATAAA      360
CACCTCACC ACTACAATCT TCCTAGGAAC AACATATGAC GCACTCTCCC CTGAACCTTA      420
CACAACATAT TTTGTCACCA AGACCTACT TCTAACCTCC CTGTCTTAT GAATTCGAAC      480
AGCATACCCC CGATTCCGCT ACGACCATCT CGAG                                     514
```

(2) INFORMATION FOR SEQ ID NO:839:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 291 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:839:

```
GAATTCGGCC TTCATGGCCT ACTACATAGA CGTGGATTTT AGGGGGACAA AATTCAACCA      60
CTACCGTCTC TTTGCTTGAA ATCACACACA ATTCCAGAG GCCTAGAGAT GCCACTTTGT      120
CCGAGATCT CTTCTGGCC CCGCTCTGT CTGGGCAGCC TGGGTCTGAT TGTCTTCTG      180
TCTGCCACCC TCACAGTCT CAGCCGTGGC CTGGTTCTG TCCTGGGGGC TGACCAGCCT      240
TCTGGGGCCT GGGACCTGGG GCATCGCTGC TGCTGCCGG CTGACCTCGA G                291
```

(2) INFORMATION FOR SEQ ID NO:840:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 221 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:840:

```
GAATTCGGCC TTCATAGCCT ACCTAAATTA ATAATAATGT ATAGTTCAGA ATTGCTAAGA      60
GTACTTTTTT TTTTTTTTTT TTGAGACAGG TTCTCGCTCT GCCCTCCAGC CTGGTGACAG      120
AGCAAGATTC CATCTCAAAA AAGAAAAAAA ACACACAGCT AATAGAATTG CCATTGTTTT      180
TCATAATAGA ATCTAGCTGC TTA CTCCAAC CTCACCTCGA G                221
```

(2) INFORMATION FOR SEQ ID NO:841:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 445 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:841:

```
GAATTCGGCC TTCATGGCCT AGTAAAGTTT CTCTCACCCC ACTTTAATTT CATGTGCCAC      60
ATTTTTTCCT TTCTGAACT ATATTGCTTC CCACATTCGG ATTTTAGAAT TTTTCTTTTT      120
AAAGAGATTG TATTTTAAAT TATATTGGC CTAATTCCCC ATGTCAATG CTTGTACCGT      180
GTGAGAAAGTC CCTAGGATGA TAGTCATGGT TTTTCCCAT CTTATTAGCT TATTATTCTC      240
CTTGCCACCC CCCCAACCCCT GGCAGCTTCC CACCCTCTCT AATGCTTCTG GAAGCTACTA      300
AGAAGTTTAA GTGGCCTATG TGAAAATATG TCAGTGTCCC ATTTAGCAT ATATATGTAA      360
CATTTACAAT TTATACCCCT GCCTACATCC GAGAGGGTTG TGAGGTGGCT TATGATGATA      420
AAGAAAAAAA CCCACATATC TCGAG                                         445
```

(2) INFORMATION FOR SEQ ID NO:842:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:842:

```
GAATTCGGCC TTCATGGCCT AAATTTATAA GGTACTCTTT AACAATTTAT ATCAGAGTTA      60
GTTGCTATCT TTAGCACCAT TGTCCTGATG GCCTCCACTT CTAGCTATAC ATTGCCTCTT      120
TGAAATGAGC CATTGGGAG GCAAATATAT CAATTAGAAT GCCTTTAAGA ATAAAAAACT      180
TAAAAAGCAA AGAAAAACAG AATGCCCTTA GGAAAAAATT TAATAAAACC AACTCAAAAT      240
TGTGCAACA AGGAAATTTT AGTGTTTCCC ATAATAAAC CTCGAG                         286
```

(2) INFORMATION FOR SEQ ID NO:843:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:843:

```
GGTTCCTAAG TAATTATATT CCAAGGAACA TAGGAGGGGC AAAAATAATT CTAAAGACAT      60
AAAGAAAGAA ACAGGATATT TTCTAAATAT TTTTATCTTG AGACAGAACT TGGTTTTTTT      120
TTTGCTTTTA GCTTGGAAAA TCTCGTGTCA TAGATAAATC TTTCTCCTAT CTTGAAATTG      180
GTCTTATCAA GGAAC TACCC GCATTGAGAT ATGAAGCTCT GGGCCTCTCT GGTAGCCTTG      240
CACACCCTTC ATTCATCACC TGGTCCCCCA GATAAGACAG CCCTGACCTC AGAATACACC      300
TTGATTAA CATTCTATGG GACATTTATT TCTAGTCTAC CCCCATCCCT CGAG                         354
```

(2) INFORMATION FOR SEQ ID NO:844:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:844:

```
GAATTCGGCC TTCATGGCCT AGTGGAAAAA ATAAGATATT TCTTAAAGTA ACAAGGCCTG      60
AATAAATGTG TGGCAGTCTC AAATTCTATT CTATATCTCA GGTGTAATCC TTACATACTA      120
AAGATAGTGG GATCATCCTT GTAGATTCTT AGCAGACTGG TACATTAAAA AGTGACAATG      180
TTTGGGGTAT GACAGTATAA AAAAAGGTTT AATTGAGAA AAAGGATTAA GTTAAATAGT      240
AAACTTAGTG TGAGATTTTA ATCACAAGTA CAAAAGAGTG AAGAGCAGCC TTCATGACAA      300
GGAATCATGT GACCAGCCCC CACCCCAAAC TCGAG                                335
```

(2) INFORMATION FOR SEQ ID NO:845:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:845:

```
GAATTCGGCC TTCATGGCCT AAGAAAGGGT GGGAACAAAC ATTGATCACA TTTATGGAAA      60
CCTGCCTTCT CGTGCTGGGC ACTTTATATA TGTATCTCC CTTTGTGGTG CAATCTCATG      120
ACATGCAGTC ATTGTCCATG TTTGTGGGTG AGGAAACAGG CTTAGGGGTG GGAGGCTCGC      180
CTGAGGCCCC AACTGTTGG CTGGAGACAG CGTGGGGCCT GAGTCTTGCT CACAGCCTGA      240
ACGCTGCACT CTGCTGCTCC GCGTCCCAGG AAGGAAAAGC TGCTGCAGTG GGTGTTGTTT      300
GCCAAATACA TGGAGGCTTT TTTCTGGGTG AGTGCCAGC AGTTGATTGT TCTGTATGCC      360
TCGAG                                365
```

(2) INFORMATION FOR SEQ ID NO:846:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:846:

```
GAATTCGGCC TTCATGGCCT AATCCATGTT GTACAACTGA AATATAAATA ATTTGTCAA      60
TTATACCTAA ATAAACTGG AAAAAAATTT CTGGAAGTTT ATATCTAAAA ATGTTAATAG      120
TGCCTACCTC TAGGAAGTGG GCCTGGAAGC CATTCTTACT TTTCAGTCTC TCCCATTCTG      180
TACTGTTTTT TGTTTTACTT TCGTGCGCTG CAGGTCTAGA ATTCAATCG                                229
```

(2) INFORMATION FOR SEQ ID NO:847:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 575 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:847:

GAATTCGGCC	TTCATGGCCT	AGGGGAGAGT	ATCATCTCAC	CAAAGGTGAA	AATGGCATT	60
CGGACATCAG	GACATCTCTT	ACTGGGAGTA	GTTCGAATCT	ATCACAGGAA	AGCCAAATAC	120
CTTCTTGCAG	ACTGTAATGA	AGCATTTCAT	AAGATAAAGA	TGGCTTTTCG	GCCAGGTGTG	180
GTTGACCTGC	CTGAGGAAAA	TCGGGAAGCA	GCTTATAATG	CCATTACTTT	ACCTGAAGAA	240
TTTCATGACT	TTGATCAGCC	ACTGCCTGAC	TTAGATGACA	TCGATGTGGC	CCAGCAGTTC	300
AGCTTGAATC	AGAGTAGAGT	GGAAGAGATA	ACCATGAGAG	AAGAAGTTGG	GAACATCAGT	360
ATTTTACAAG	AAAATGATTT	TGGTGATTTT	GGAATGGATG	ATCGTGAGAT	AATGAGAGAA	420
GGCAGTGCTT	TTGAGGATGA	CGACATGTTA	GTAAGCACTA	CTACTTCTAA	CCTCCTATTA	480
GAGTCTGAAC	AGAGCACCAG	CAATCTGAAT	GAGAAAATTA	ACCATTTAGA	ATATGAAGAT	540
CAATATAAGG	ATGATAATTT	TGGAGAAGGC	TCGAG			575

## (2) INFORMATION FOR SEQ ID NO:848:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 539 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:848:

ATCCTGGAGT	GCAAAAATAA	AATCCACTCA	AGAGTCACAA	GGCCCCTGT	GCATAATCGG	60
TTTCACTTTT	ACCTTTTTTT	TTTTTTTTTT	TTTTNGAGAC	AGGTCTCACT	CTGTCACCCA	120
GGCTGGAGTG	CAGTGGCACA	TTCTCGGCTC	ACTGCAATTC	CGCTTCCTGG	GTTCAAGTGA	180
TTCTCCACCC	TCAGCCTCCC	AAGTAGGTGG	GATTACAGGT	ACTCACCACC	AGGTCCAGCT	240
AACTTTTGTA	TTTTTAGTAG	AGACAGGGTT	TCACCATGTT	GGCCAGGCTG	GTCTCGAACT	300
CCTGACCTCA	GATGGTCTGC	CCACCTCCGC	CTCCCAAAGT	GCTGGGATTA	CAGGCGTGAG	360
CCACTGCGCC	CGGCCACTTT	CACACTTTTT	ACAGTGAGTG	GTGAATTAGC	AACAGTAACA	420
CTGATTATCC	AACATATATT	TTGGAATATC	TACTATGTGC	AAGGAATTTT	TCTTAAACTC	480
TAAGGTTATG	AATCACTGGG	CAAATCCATA	TAATTAGAGA	ATTTTAAGTG	CGTCTCGAG	539

## (2) INFORMATION FOR SEQ ID NO:849:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 193 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:849:

GAATTCGGCC	TTCATGGCCT	AGGGGGAAGA	CGGGAAGCAT	ATAAATAAAC	AAATAATTTT	60
TAAAAGCAAC	TTTTTTAAAG	CAAGTGGGAG	GGGCATGCTA	GTTTTAAGAA	CTGTAATAAA	120
AAACACCACC	CATTGTTTTT	TTTTTGTTT	TTCTTTTGG	AGACAGAGTC	TTGCTCTGTC	180
ACCCAGTCTC	GAG					193

## (2) INFORMATION FOR SEQ ID NO:850:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:850:

GAATTCTAGA	CCTGCCATGG	CTGTGGGCGC	GCTCCCCTCT	GACTGCGTCC	CCTTCTCTCC	60
CTGCATCCCC	TTCTCTCCCT	GCATCCTTCT	GTCTTCTCTGT	GTGCCCTTAT	CTGCCTGGGC	120
CTTCCTGTCT	TCCTGTATCT	TCTCACCTGC	CTGTGTTGTT	TCTAGCTGTG	TCTCTGCCCT	180
TCCCTGTGTC	ATCATGCCCT	TCTGTGCACT	CCTGTCTGAC	TGTGGCCTCT	TGCTTTCTTG	240
TGTCCAGCA	TCCACCTGCG	TCTTCCTATC	TGCACGTCCC	CTCGAG		286

## (2) INFORMATION FOR SEQ ID NO:851:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:851:

GAATTCGGCC	TTCATGGCCT	AATCTCGTTC	TCCATGTCTT	CCGTGTGCTG	GATACACTGG	60
CAGAGCTCAC	AGATGAGAAA	CGCCCCCAGG	GTGGCCTCCT	CGTGGTTGTC	CTGGATGTCC	120
ACATTGACCA	CGTGACACAG	CTGGCAGGTC	TCCTGTTCTC	TGGAATTCAG	ATCTTCCACC	180
ACCTGGTCAT	ACACTCTCTC	TTCGCAAGTG	AGGATCAGAT	CAAACAGGTC	TTTGCAGTTC	240
TGGAATCTTT	CTGGCCGGGG	CTTGATTCTC	TTATTTCTGT	CCAGCATATG	TAAAATCCCA	300
TTCTGTGTAT	AGAGTTCTTT	GTCTTTCCTA	AGAAGATCAT	TGTACATCTG	GTCATATGTG	360
GTTTTGAAAT	CATAAACATT	GGGCTTGTCG	GGAGCTGGTC	CTGGAAGCTT	CACGTGAGTC	420
CCTGTTCCAA	AGGATCGGAC	GCTGAATCCC	CGTTTGCTGA	GGATGTTGTG	CGCCTCCATG	480
CTCCGGTTCT	GTTTGCTCGA	G				501

## (2) INFORMATION FOR SEQ ID NO:852:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:852:

GAATTCGGCC	TTCATGGCCT	AAGTTGTGCT	GACACCAAAC	ACATCCAGTT	TATAATCAGT	60
ATATTGGAAA	GCTGGTATTG	ATGTAGAACC	AGTGCAAAAC	TTTTTATGGG	GTTTGTAT	120
TGGTTTTTTT	TTGTAAAGTG	TGAATAAAAG	GTATGTTTAC	TCATTTTCC	TGAACACTGT	180
GTTGGTAATG	TGCATCATGA	CAATTTCCAG	TGAAGGTGAG	CTGGAGCTGG	TTGGACTAAT	240
GAGACTGAGG	AAGCAGCTTT	TCCTACGATC	TGCATTATGT	AATCACAGGT	CCAGAGAGCT	300
TTATGGAAGC	GGGAGAGGAG	GAGCACTTAC	TCATGTTGTA	TTTGTTAATG	GAGGATGTCA	360
TCTTTTCATA	GATGCTGGAA	CTAGAGTGCA	CTTGTTAGAT	GCTAAAGGTT	TGAGCTTTAC	420
ACAAAATGTC	TTCATCTGTA	TTTGTTATTG	TCTACAATAT	ATTGAATTT	GGGGCAAGTC	480
TCGAG						485

## (2) INFORMATION FOR SEQ ID NO:853:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 746 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:853:

```

GAATTCGGCC TTCATGGCCT AGGTGGCTGC ACCATCGGGA TGTCTGATC CAACATCGAG    60
GTCGTAAACC CTATTGTTGA TATGGACTCT AGAATAGGAT TCGCTGTGA TCCCTAGGGT    120
AACTTGTTCC GTTGGTCAAG TTATTGGATC AATTGAGTAT AGTAGTTCGC TTTGACTGGT    180
GAAGTCTTAG CATGTACTGC TCGGAGGTTG GGTCTGCTC CGAGGTCGCC CCAACCGAAA    240
TTTTTAATGC AGGTTTGGTA GTTTAGGACC TGTGGGTTTG TTAGGTAAGT TTTGCATTAA    300
TAAATTAAG CTCCATAGGG TCTTCTCGTC TTGCTGTGTT ATGCCCCGCC TCTTCACGGG    360
CAGGTCTAGA ATTCAAAAGC AAGCATCTCC GCATCGCATC CTCTTCCATT AACCAGTGGC    420
CGGTTGCCAC TCTCTCCCC TCCCTCAGAG ACACAAAAC TCCAAAAACA AGACGCGTAG    480
CAGCACACAC TTCACAAAGC CAAGCCTAGG CCGCCCTGAG CATCCTGGTT CAAACGGGTG    540
CCTGGTCAGA AGGCCAGCCG CCCACTTCCC GTTCTCTCTT TAACTGAGGA GAAGCTGATC    600
CAGTTTCCCG AAACAAAATC CTTTCTCAT TTGGGGAGGG GGGTAATAGT GACATGCAGG    660
CACCTCTTTT AAACAGGCAA AACAGGAAGG GGGAAAAGGT GGGATTATG TCGAGGCTAG    720
AGGCATTGGG AACACAAAT CTCGAG                                     746

```

(2) INFORMATION FOR SEQ ID NO:854:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:854:

```

GCAATTCTAG TGGTAAGGTG TTAATAATTT CACTCTTTTT ATGTAGACGA GAGGTTGAGC    60
CTTGAAGGAT GAGAGGTGTT TACCGTCTTA GGATGGGGTA TAGTAGATAG AACCATATGA    120
ACCGAAGAGC TGAGGAATGT GAGCATGTAA CACCTGACGT GTACAGTAGT AGGTATGAAG    180
TCATATGGGA GCAGTATTTT TTTTCTATT TTGTTCACTG ATTTTCTCC ACTGGTACTT    240
AATAGGCACT CAATAAATAT TTTGCTAAAT AAATGAAC TGATGTGTA AATCCAGTTA    300
GTTTACATTT TGGTTGGTTT TGGTATTGTC TTTTAAAGGT AGCAAAGACC AAGTAATTAA    360
ATTGTTAGA TGAATATGAG ATAAATGGG CTCTCGAG                                     398

```

(2) INFORMATION FOR SEQ ID NO:855:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:855:

```

GCCCTTTGCT CCATTTCCTAA GGAAAGAAAT TAAACCAAGA TGGTGGCTGG GATTACAGGC    60
ATGAGCCACT GTGACCAGCT CGCAAGATAG AATTTTGAAG AATGTATCTT GAGCCTCTCT    120
TTCTCTTTCT AGTTCTTTAA GATTCAAGAA ATCAAATAAG GTGATAGCCC TGAAGCCCTT    180
ACAGGCAGAG GTGCCCTCGA CTGTGGGTGA GGAGGTATTC ATCCCCAACC AGTGAGATAT    240
TCTGAGTGGG GAGAAGTGTT TTCTATCGAT GACACAGGGT GGGCCCTATG GGAGCAGCAG    300
CATGGCCCCA CCTTCGACCC AATGCTGAGA GGAAAGGGGC CTCAGGAAGG GGAGACTGAA    360
GCCAGCACAC TCGAG                                     375

```

(2) INFORMATION FOR SEQ ID NO:856:



## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:856:

```

GAATTCGGCC TCATGGCCTA TGAATTTATT TTATTTTACT TATTTATTTA TTTGGTAGAG      60
ACAGGGTCTC ACTATATTAC CCAGGCTGGT CTCTTACCCC TGGCCTCAAG TGATCCTCCT      120
GTCTCTGCAT CCCAGGCCTC CCAAAGTGGT GGGATTACAG GCATGAGCCA CGATGCCTGT      180
CAGCCTTATT GCACTTCACA CACACACACA CACACACACA CACACACACA CACACACACA      240
CACACACTGA TTCAGGCCTT GAGAGTCAAG CCCAAGAGCT CCCTTGGCCC TGTTCCCCAC      300
TCTCTCGAG                                         309

```

## (2) INFORMATION FOR SEQ ID NO:857:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 564 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:857:

```

GGAGAAATAT GGCTTCAGTT TTTCATTACT TCCTGTAGT TCTGGTCTTT CTGGATACAC      60
ACGCAGCTCA GCCTTTCTGT CTGCCAGGAT GCACTTGCTC AGAGGGAGTT TTNGCAGGAC      120
TCTGCAGTGC ACATCTGTCT CCTTGGGAAA GATCCCTGGG AACCTTTCTG AAGAGTTCAA      180
GCAAGTGAGA ATTNAAAAT TCNACCNTTA TTTGAGATGC CCCAAGGNTC TTTCATCAAC      240
ATGAGCACCT TGGAATACCT CTGGCTCAAT TTTAACAATA TCAGTGTGAT CCACCTAGGA      300
GCCCTGGAAC ACCTGCCAGA ACTGAGGGAG CTGAGACTGG AGGGGAACAA GCTCTGCTCA      360
GTACCATGGA CAGCGTTCCG TGCCACCCCT CTCCTGAGGG TCTTGGATCT CAAACGCAAC      420
AAGATTGATG CACTCCCTGA GCTGGCTCTT CAATTCTTGG TCAGCCTGAC CTACCTTGAC      480
CTATCCTCCA ATAGGCTTAC AGTTGTATCC AAGAGTGTCT TCCTGAACTG GCCAGCCTAC      540
CAGAAATGCC GCCAGCCACT CGAG                                         564

```

## (2) INFORMATION FOR SEQ ID NO:858:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 680 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:858:

```

GAATTCGGCC TTCATGGCCT AGGTGGTTTG GAGTCATAAC ACAGAAGTGG TGAGAAGTGA      60
TCAGAGGCGG ATTTCTTGGT GCATTGAATA TGGGATGTGA GATAAGCAGA GGAGTCAGGA      120
TGGCTTCCCG GACTATGGTC CAAACAGTGG AAAGGATGCA GTGGCTGTAA CCTGAAGCAG      180
GAAGTCTGCA GGTGGGACAG AAATGTTTGT TAAGGGAAGT GTTTTCAGAG TTTGGTTTTG      240
GATATGTTAA GTTTGCCAGT GTAAATGGAC ATACTGTGTA GACATTTGGA AATATGAATC      300
TTGGAATAT GAGGTTCTGG GTATGAGCAG AGTCCAAGGA TGAGCCTAGG GATTGGAGAG      360
CTGAAACCAG AAAAAGAAGC TAGAAGGAGA GGCCAGTTAA GACAGTGAAA AGAAGCGAGG      420

```

CATGAGGATC	ACTTGAGGCC	AGTAGCTCAA	CAGCCTGGGC	ATCATAGCGA	GACCCTGTCT	480
CAGCAACAAC	AACAAAACGG	ACAGTGAAGA	GAGTATTGTA	AGGAGAGGGG	AACAGGCAGC	540
GTATTGCTTA	TTGCTGAGGG	GCAAAGTGAA	GACCAAGGAT	AGACTGCTGG	GCTTGACAGC	600
ATGGAGGGTG	CTGGGGGCCCT	AGGCAAGTGC	AATATTCATG	TGGTGTTCATT	GGGCCAAAGG	660
TGTCATTGGA	GGTACTCGAG					680

## (2) INFORMATION FOR SEQ ID NO:859:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:859:

GCAAAAGCAA	GTCACGTGGT	CATGCAGGGC	CTCAGTAAGC	AAGAAATATT	TACCCGCCCCG	60
GGGATGGACA	GGTAGGAAAG	GGTCTGTAA	GGAAGGGCAG	CAAATATTTG	GATAACAGTA	120
CTATGTGTTT	GTATGGAGCG	ATATTTAAGA	AGGTTTCCTA	GGTTTTTTGA	GGGGTATTGA	180
AGCTGAGAGG	TTGGGGGCAG	GCAGGAAGCT	CTGCAGCCTG	TAGCCTATGG	TATCAAGCTT	240
CATGAGAACG	AGAATTAACT	AGTTACATCT	TTATTACCAT	TTTTGGCATC	TCTGCAGACA	300
GTGGATCTAA	TGCATGATAG	CTGATTAATA	AATGTTTGT	GAATTAATGA	ACAAAATAGC	360
AAGAAACACG	TGTTCTCGAG					380

## (2) INFORMATION FOR SEQ ID NO:860:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:860:

GATTTTGAAT	ACACNACNAA	GTTAGAAGAA	TCTTATTACT	TAGATTCCAT	TAATATCTTA	60
CTATGTTTTA	TTACAAATCT	ATGTATCTCT	CTAGCCATCC	TTTAATCCAT	GTTATGTTTT	120
TGATGCTTTG	CAAAGTAAGT	TGCGAATATT	GGTTCATTTT	CCCTGAAATA	CCTAAGCATG	180
CAAATCATGA	ACCAAGTTCC	AATATTTGTG	TGAAATGCAC	AAATAAGTGT	AAATTTGCAG	240
AGTTTGGGCA	TATGCGTATA	CCTATCAAGA	CACGGAGCAT	TAATATCACC	CTGGAAGTCC	300
TCGAG						305

## (2) INFORMATION FOR SEQ ID NO:861:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:861:

GAATTCGCC	TTTATGGCCT	AGTGAACAAG	TAAAGACTGA	ATGGGGCTGA	GATGAAGGCA	60
ATGTTTCCAA	GGAAAGGAAA	TGTTATGAGC	AAGAGTGTGA	GGCAAGAGAA	GCTGGAACCA	120

CATTCAGAGA GTATCCTGTA GATTGCTCCA CCTAGAATCT CAGGTGGGTG GAGCAGTGGT	180
GGGAGAAGAC TGGAAAGGTA AGTTGAAGGT AAGGAATGTG TGGTGGGCCT CAGATCCCAG	240
GCTCATTCTT CAAATCACTT CTTACTTCCC TCACTTATCT TTGTTTAAAT AAGGTTAGCA	300
CACTCACTCG AG	312

## (2) INFORMATION FOR SEQ ID NO:862:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:862:

GAATTCGGCC TTCATGGCCT AGTGGCGGGC ATCTTGTGTT TATCTTCTGG AGTGAAATAT	60
GCTTTTCCAG TTGTCTTCGA AGTTTCACCT CTGCTCCATA TTTTCCAGTG GTCCCCTGTG	120
CAGCCAGAAT GAAGTGGGAA TGCATGCTGT TGAGAACAGT GAGCTTGCTC ATGGGATTGG	180
ACATGGTCTG GTATGGCCGG ACAACATCTC TTCCAATGAG GTCCTCCTGG TTTTCCACAA	240
TTCCCCAGGG GGCAATACCT ATGGTGCATA TCTTCTCTCG AG	282

## (2) INFORMATION FOR SEQ ID NO:863:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:863:

GAAATTCGGC CAAAGAGGCC TAGGGTGCCT GTGGTTCCGG CTAATCGGGA GTCTGAGGCA	60
GCACAATTGC TTGAACCTGG GAGGTGGAGG TTGCGGTGAG CCAANATGGT GCCACTGCAC	120
TCCAGCCTGG GTGACAGAGT GAGACTCTGT CTCAAAAAAA AAAAGACCTT CCTTAATAAG	180
TGGAGTTGGA TAGACATTTT GCTTTGGAAA ACAGAAGCTA TTTACTGTCA ATATTAGGTC	240
TACTTCATTC ATTTACAGA ATAGGCAAAG ATGTCTGGGG CTTTGCTCAC TAGGGAATTC	300
TGGCCATGGC CTTTGTCTT TCTTCTAACC AGGCCTTTTG CTTCTCTTCT CCCTTTTTCG	360
CAGATGTAGA ACCACCAGGC GACTCGAG	388

## (2) INFORMATION FOR SEQ ID NO:864:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:864:

GAATTCGGCC AAAGAGGCCT AAAGTTTCTA AAGATTGTAA ATTTAAAAGG AAATGCCAAA	60
TGAATTATTT GTAAAATTGT TAAAAAAT TAATAAATAA TGAGTGCGCC TCGAG	115

## (2) INFORMATION FOR SEQ ID NO:865:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 137 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:865:

GAATTCGGCC AAAGAGGCCT AGATTGAGAA TGCTGACTCG CCTAAAAGCT TTATGCTTAT	60
CATGTCTGTG GTGCTTGGAG CCTGTGGCCC AGGTGATTG GGGTTTGGGG ACGCCTCATG	120
GGCAGAGACG GCTCGAG	137

(2) INFORMATION FOR SEQ ID NO:866:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 622 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:866:

GAATTCGGCC AAAGTAGGCC TAAATCCGT CCGGNAACTA TGAACAATGG CAGCTACAGC	60
GTANTCAGCT TCAAGGAGCA ATGCAGCAGT TTAACCAGAG ATTCATTTAT GGGGAATCAA	120
GATTTATTG CTACATCACA AAGTAAAGAA TTTGATCCTC TTGGTCCATT GCCACCTGGA	180
TGGGTCAATT AAATGAAAAG CCCTTACCTG AAGGTTGGNT TTNAGATTG ACAGTGGATG	240
GAATTCATA TTTGTGGAC CACAATAGAA GAACTACCAC CTATATNGAT CCCCACACAG	300
GAAAATCTGC CCTGTAAGTT TTCTAAACAT TGTAGATTAA GAGTAAAATA CTAGTCCTTC	360
AGATTTTGAT ATAAAGATTG GTATTAGCAA GGAGTGGGAG TCTTAGTATT TCTTGAGTTA	420
GCTTGACAAT AGGTTTCTGT TCATTAAGTA TTTTGCAATT CCATCTCCCT CTTGGATATT	480
TTATCCTAGA GATTTTCATA TTTGTTACCA TTGTTTACA CAGCACTAAA TGAAACTATT	540
TAGAATTAT AGGTATTGTA CTGCTTACCA ATTAGTCTCT GATTTCTGAT TTTCAGCTTC	600
TTTCATTCCC TNAACACTCG AG	622

(2) INFORMATION FOR SEQ ID NO:867:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 453 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:867:

GAATTCGGCC AAAGAGGCCT GGCAGGCGTG TTTATTGACT CTTCCAATTA ATTTTAAAGA	60
ACCTGAAGAA ATGGACAAAG ACAGAGAAAA GNCNACCAGA TGTGATTCCG CCCTTCCAGN	120
AAGCAAAGAG CTTATTTTCAT CCCATATGAT CGATGCCAGT CATGGGGANG AGTGGCTGTG	180
TGGAATTAAT GGATTTTCAA CATCCATCAC AGAGGACACA CATGTATATT AGCNAGTCTN	240
AAACCTCTTA AATAAATGC ATTGCTTTTC ATTTTCACTT CCAGTTATAA AACCAGTGGA	300
TGATGNAAAG GCCATGTGAC NATACAGCAT GTACTCTCAG GNATGTTTGT GTGACAGGGA	360
TATTATATCT GAAGGGACAG GGCAACTGGG AGGGTGAAGT GCTCATAACT CTCAATTGTC	420
CAGGTAATGA AGCATTGGGA AAGCGACCTC GAG	453

## (2) INFORMATION FOR SEQ ID NO:868:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 642 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:868:

```

GAATTCGGCC AAAGAGGCCT ACGAGCACCT CCGCCGCGCG CCTCCTCCGC CGCCGCGGAC      60
TCCGGCAGCT TTATCGCCAG AGTCCCTGAN CTCTCGCTTT CTTTTTAATC CCCTGCATCG      120
GATCACCAGG GTGCCCCACC ATGTCAGACG CAGCCGTAGA CACCAGCTCC GAANTCACCA      180
CCAAGGACTT AAAGGAGAAG AAGGAAGTNG TGAAGAGGC AGAAAATGGA AGAGACGCCC      240
TGCTANCGGG AATGCTAATG AGGAAANTGG GGAGCAGGAG GCTGACAATG AGGTAGACGA      300
AGAAGAGGAA GAAGGTGGCG AGGAAGAGGA GGAGGAAGAA GAAGGTGATG GTGAGGAAGA      360
GGATGGAGAT GAAGATGAGG AGCTGAGTCA GCTACGGGCA AGCGGNCAGC TGAAGATGAT      420
GAGGATGATG ATGTCGATAC CANGAGCAGA AGACCGACGA GGATGACTAG ACNGCCAAAA      480
AGGGAAAGTT AACTNAAAAA AAAAAGGCCG CCGTGACCTA TTCACCTCCA CTTCCTGCT      540
CAGAATCTAA ACGTGGTCAC CTTGAGTAG AGAGGCCCGC CCGCCCACCG TGGGCAGTGC      600
CACC CGCAGA TGACACGCGC TCTCCACCAC CCAACTCTCG AG                        642

```

## (2) INFORMATION FOR SEQ ID NO:869:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 347 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:869:

```

GAATTCGGCC AAAGAGGCCT ACTCCTCCTC TTCGGTCTCA CCACAACCCA CCCTATCAAA      60
ATACTGCACC TCCACACAGC CGTTCTCTT TCATTGGGAA AGGCCAGCAC CTGGCCTCTT      120
TCTCTTTGAT GCTTTTGTA ATTGAGTTTT GGGGAGAGCG TTCCTGGTCT TTGTCCATAA      180
CCAGTGAAGA CAAACAGTGT ACTTGGTGTA AGCAGACACT GAAGGTTTGT CTAAGCTGTC      240
AGCCTGTCTT CCAACACCT GTGCCTGTGC TGAGACCTGA TGGTCCAGGA AAGGGCAGCT      300
GCCCACTGTG GGATCCCCCG CCACCCACAC ACGCACCCCC CCTCGAG                        347

```

## (2) INFORMATION FOR SEQ ID NO:870:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 353 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:870:

```

GAATTCGGCC AAAGAGGCCT ACAGAGAAGC GGGGCGAACT GAGGCGAGTG AAGTGGACTC      60
TGAGGGCTAC CGCTACCGCC ACTGCTGCGG CAGGGGCGTG GAGGGCAGAG GGCCGCGGAG      120
GCCGCAGTTG CAAACATGGC TCAGAGCAGA GACGGCGGAA ACCCGTTTCG CGAGCCCAGC      180
GAGCTTGACA ACCCCTTTCA GGACCCAGCT GTGATCCAGC ACCGACCCAG CCGGCAGTAT      240

```

GCCACGCTTG ACGTCTACAA CCCTTTTGAG ACCCGGGAGC CACCACCAGC CTATGAGCCT 300  
 CCAGCCCCTG CCCCATTGCC TCCACCCTCA GCTCCCTCCT TGCAGCCCTC GAG 353

## (2) INFORMATION FOR SEQ ID NO:871:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 426 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:871:

GAATTCTTAG TTTGTTTTCA ACTGGAAAAT ATATAGAGAA AGATGAAGGG GCATTTTTC 60  
 CTCTACTCAT CAATTTTGG TACCAAATTT CTAAAAACC AGATGGTTTA AAGAAAATTT 120  
 TTCCAAAAAT TATGTTAACA TTCTGCTCAG ACATGGCTGC TAAAAAATA GCATATACAC 180  
 ATATAATACT GAACAGCTTC TGCACTGCCT GTAACTCTC AGCTCATTTT CTCTTTCTAA 240  
 ANAAAAATA TATTATACT GATCCAGAA CTCAATCTCT ATTGTGCAGC AGTATCAAAG 300  
 GTCCTTAAAT TCTCAACAAT GAAGGAAAA CAAAAACCA TCCCCGGAC CGCTTGAGCA 360  
 GGACTAGGGA AGGAGGAGTC CGTGGATGCA AAGGTCGCT GCCCCGACGC CCTCAGANTC 420  
 CTCGAG 426

## (2) INFORMATION FOR SEQ ID NO:872:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 430 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:872:

GAATTCGGCC AAAGAGGCCT AGGGAGGGCT GAGAGGGAGG GAGGGAGGAA GGAAGGAAAA 60  
 AAGGAACAAA TGCCGCCTGA CCGTTCTTTG TGGAATGACT ACACCTATGA TGAGTACCTC 120  
 CATGGACCAT GCACCTGCCT TGAACAAGG AGGCACAGCA CACAGGGCCC TCAGCTAGAG 180  
 TGACAGGGAA AGGCGGGTGG ACATGGGGAA GGCTCAAAC CAAGCTTTGA AATCGGGGAA 240  
 AGCCCCGAAA TCTGAACCAC TCTTGGGCCC ATCCTTCTCT CTCCACATT CACACCTTCG 300  
 CCTGCGCTCC CATAATTGCA AATTAATTCA TCCACACATT CACACATTCT CTCCCTCCCA 360  
 CTCTCAANAG GCAGCCCCAA GCCCGGGGGC CTCACGAAGT CTGGGTGGAT GACCAAGCTC 420  
 CTCCCTCGAG 430

## (2) INFORMATION FOR SEQ ID NO:873:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 606 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:873:

GAATTCGGCC AAAGAGGCCT ACGGGCATGG TGGTAGCTCA GGAGTTCAAG GCTACAGTGA 60  
 ACTATGATTG TGCCACTGCA CCCAGCTTG GGTGACAGAC AGTGAGACCC TGTCTCTAAG 120

AAATAAATAA AAATAAAAAA TAAGAGGAGC TTTTGAATT CAGCTATTAG GAAGTTACTG	180
GTGCCCATGG AGGGAAGTGT TCCAGGCAAG TGGTGGTGTT AAAGGTNGAG AGAAGAGACA	240
TTAGCTCAGT GCTTCCCAA TAGGATANCC AAGGCGCCAA GCTGCANACT GATCTCAGGT	300
GTGGCCCACT GCCTCCCCCT CAGCTGGAAC CCCAGACCAG ACTCCTGCAG TTTCAAGCAG	360
CCTCCTCCTT CTATCCCGGT GTACCTTCCA TATCTCAGTT CCACCACGGG GAACCTCAAA	420
CACTCGACAA CCATTTCCTAA AAGCCTGGCT ATGGAAAGAA GAGGAAAGGG AGGAGCCGCA	480
AGTTTGGGAG AAAGTGATTT TGGGATGCTG GAGTGGGAGC CTGTTTGTAG GAGCCATAGG	540
GCAGGCTTGA AGATGAATGG GAAAGAAGAT GAGNGGAAGA GGAGGTGAGA CTGAGAGCAT	600
CTCGAG	606

## (2) INFORMATION FOR SEQ ID NO:874:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 99 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:874:

GAATTCGGCC TTCATGGCCT ACTGGGGTG AACTATAAA GAAAAGCAAG AAGTGATTAT	60
CATAAAGAA AGGTAATGAT GTTTTTTCCC TTTCTCGAG	99

## (2) INFORMATION FOR SEQ ID NO:875:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 73 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:875:

GATGAACAGA TACGATTGTG GGATTTTAT CATCTGTGTA GCAGGTGGTG TATGCATCGG	60
GGTACTCCTC GAG	73

## (2) INFORMATION FOR SEQ ID NO:876:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 471 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:876:

GAATTCGGCC TTCATGGCCT ACCAGAAGAT GCCTGCCTTC AATAGATTGT TTCCCCTGGC	60
TTCTCTCGTG CTTATCTACT GGGTCAGTGT CTGCTTCCCT GTGTGTGTGG AAGTGCCCTC	120
GGAGACGGAG CCGTGCANGG CAACCCCATG AAGCTGCGCT GCATCTCCTG CATGAAGAGA	180
GAGGAGGTGG AGGCCACCAC GGTGGTGGAA TGGTTCTACA GGCCCCAGGG CGGTAAAGAT	240
TTCTTTATTT ACGAGTATCG GAATGGCCAC CAGGAGGTGG AGAGCCCTT TCAGGGGCGC	300
CTGCAGTGA ATGGCAGCAA GGACCTGCAG GACGTGTCCA TCACTGTGCT CAACGTCCT	360
CTGAACGACT CTGGCCTCTA CACCTGCAAT GTGTCCCGGG AGTTTGAGTT TGAGGCGCAT	420

CGGCCCTTTG TGAAGACGAC GCGGCTGATC CCCCTAAGAG TCGGACTCGA G

471

## (2) INFORMATION FOR SEQ ID NO:877:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:877:

GAATTCGGCC	TTCATGGCCT	ACGGAAAAAT	AGTTATATTC	CAGTCTAAGC	CAGAAATCCA	60
GTACGCACCA	CATTGGAGC	AGGAGCCTAC	AAATTTGAGA	GAATCATCTC	TAAGCAAAT	120
GTCCTATCTG	CAAATGAGAA	ATTCACAAGC	GCACAGGAAT	TTTCTTGAAG	ATGGAGAAAG	180
TGATGGCTTT	TTAAGATGCC	TCTCTCTTAA	CTCTGGGTGG	ATTTTAACTA	CAACTCTTGT	240
CCTCTCGGTG	ATGGTATTGC	TTTGGATTTG	TTGTGCAACT	GTTGCTACAG	CTGTGGAGCA	300
GTATGTTCCC	TCTGAGAAGC	TGAGTATCTA	TGGTGAATG	GAGTTTATGA	ATGAACAAAA	360
GCTAAACACA	TATCCAGCTT	CTTCTCTTGT	GTTTGTTAGA	TCTAAAACTG	AAGATCATGA	420
AGAAGCAGGG	CCTCTACCTA	CAAAGTGAA	TCTCGAG			457

## (2) INFORMATION FOR SEQ ID NO:878:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 553 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:878:

GAATTCGGCC	TTCANGGCCT	AATAACATCT	CCCCAGACCC	AGAAAAACAG	AAAGCTCCAC	60
AGAAATTAAA	TGTTGAAGAG	AAACTCTCAA	AGGAAGTTAC	AGAAGAAAAC	TATCTCTTTC	120
CCAGTAAGTT	CAGTGGAAG	TGCAC TAGAA	CATGAATATG	ACTNGGTGAA	TTAGATGAAA	180
GTTTTTATGG	ACCAGAAAAG	GCCACAACAT	ATTATCTCAT	CCAGAGACCC	AAAGCCAAAA	240
CTCAGCTGAC	AGGAATGTTT	CAAAGGACAC	AAAGAGAGAT	GTGGACTCAA	AGTCACCGGG	300
GATGCCTTTA	TTTGAAGCAG	AGGAAGGAGT	TCTATCACGA	ACCCAGATAT	TTCCTACCAC	360
TATTAAAGTC	ATTGATCCAG	AATTTCTGGA	GGAGCCACCT	GCACTTGCA	TTTTATATAA	420
GGATCTGTAT	GAAGAAGCAG	TTGGAGAGAA	AAAGAAGGAA	GAGGAGACAG	CTTCTGAAGG	480
TGACAGTGTG	AATTCTGAGG	CATCATTTCC	CAGCAGAAAT	TCTGACACTG	ATGATGGAAC	540
AGGAATGCTC	GAG					553

## (2) INFORMATION FOR SEQ ID NO:879:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:879:

GAATTCGGCC TTCATGGCCT AGGTTCTTAG GCTCTGAGAT ACTTCCTGCT TCCCTCACA

60



ACATGCTTAT GTTGGTGTG CATGCACATT TGCCTATCAG CACATATAAA GAGACAGTGG 120  
 AAAAGTCAGA AGTGTTTTCA GGTATTTC CGATTGAATT CTAGACCTGC CTCGAG 176

## (2) INFORMATION FOR SEQ ID NO:880:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:880:

GAATTCGGNC TTCATGGCCT ACTTCCTCTT CCTCCTCTTC CTCTTCCCCT TCCTGGTGCA 60  
 GGTACATGAC ATTCCGCACG TTCCGGACGG CCCGGGCAGT CCGAGACAGG ATCACTGTGT 120  
 CACAACGTGTC ATCACTGTCC CCCTCACTGT CCAAAATGTA GTCCCGGGGA ACATGATTCC 180  
 ACAGCCCATG ATGTCCCCTT TGTAACAGCG TGGCCCAAAG GGTCCCCAC ACCACCTTCC 240  
 TGCCTCATG CTCGGCTCT ATCTCTTCCC CATCCTCTTC CTCTTCTCT TCCTCCTCTT 300  
 CCTTTCCCC TCACTCGAG 320

## (2) INFORMATION FOR SEQ ID NO:881:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:881:

GAATTCGGCC TTCATGGCNT AATCTGTAAC ATGAGGGAAT AACTAGTAT TATCTAAGCA 60  
 TTCTCTAGAC TTAAATATG ATTCTAGAC CACTGAGGAG ATTAATAATG AGGTGAGAGG 120  
 GATTTCAAA TGAAGCGACC TGCCAGACAT GGTGGCTCAC AGCTGTCATC CCAACATTTT 180  
 GAGAGACTGA GGCAGGGGA TCGATTGAGC CCAGGAGTTC AAGACCAGCC TGGACAACAT 240  
 CGCAAGACCC TGTCTCTACA AAATAAAAAA AATGTAAAAA TAGCTAGGTG TGGTGGCACA 300  
 CACCTATAGT CCCAGCTACT CGAG 324

## (2) INFORMATION FOR SEQ ID NO:882:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:882:

GAATTCGGCC TTCATGGCCT ACAGAAATTG AGAGTAAACA GAAACATTTA TAGGTCAATT 60  
 GCTATTGATT ACGAACGTCT AAGTGCAATT CAGTGTTTTA TATTTTACAA ATGTGTTGGA 120  
 ATTTACTTT ACTTATTCTT TTGAGACAGG TTCTCGCACT CCAGCCTAGG CAACAGAGTG 180  
 AGACTCCGTC CCAATCAGTC AATCAATCAA TCAATCAATA CCACAGCGGA GAAAATCTTT 240  
 ACAACTTTTG GTTAGGTAAT GATTCTTAG GTAGGACACA CAAAACACTC GAG 293

## (2) INFORMATION FOR SEQ ID NO:883:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:883:

```

GAATTCGGGC CTTTCATGGCC TACCTACGGA GTGCTTCTTT CTCACCCTGC ATGCTCACCA    60
CCTCTCTATT CTGCCTAGTT GCCGTCGCTA TATCCGCAGA CTCGGGGCTA TCCGGGAGCT    120
CAATAGGTAT GTGCCATGAT ACCGTGTCCT GGGATTGCCT GAGTTACCAC TTTTCTCAG    180
GGGCAGGCAA TTCCATTGTG AACAGTAGTT TTGAATGTG GGGGAGGTAT GTACGTATA    240
TAGTGTTTCT GTCTGCCTCC ACCGCCACAT CCATGTTGCT CAGTTGTCCA GAGTTCCTTA    300
CCTGGTGAAG TGATCCAAAC CTTGATTCTT GAGAGTTCTG AACCCCTCGA G          351

```

## (2) INFORMATION FOR SEQ ID NO:884:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 454 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:884:

```

GAATTCGGCC TTCATGGCCT ACCTGGTGTT TTTTGTITTT GTTTTACCC CTTGTCTTAT    60
GCCAGTGAGT TCCTTCGGGG TTA CTCTGC AGTAGGTGGA CTATCATCTG GGACAGTTGG    120
GGAAGCTTCG ACAGCCCTGA GTTCAGCAGC CCAGGTAGCT TTGCAGTCTC TCTCTCATGC    180
AATGGCTTCA GCCGAGCAAC AGCTACAGGT GCTGCAAGAG AAACAGCAGC AGCTTTTGAA    240
GCTTCAGCAA CAGAAAGCAA AGCTGGAAGC CAAGTTACAT CAGACAACAG CTGCAGCAGC    300
TGCAGCAGCA TCAGCAGTAG GTCCTGTTCA CAACTCTGTG CCTTCCAACC CAGTGGCTGC    360
CCCTGGATTG TTCATTATC CATCTGATGT TATTCACCC ACTCCAAAA CAACACCTCT    420
TTTTATGACT CCACCACTCA CCCAGCCCT CGAG          454

```

## (2) INFORMATION FOR SEQ ID NO:885:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:885:

```

GAATTCGGCC TTCATGGCCT AGACGAATTT CAAGTATTTA TTACCTCTGT TGAATATAAT    60
TTATTGAAGT GTAAGCTTAT ATATAATTCA ACTTTAAAAA ATGGCCTGAG TTGAACAACC    120
AGCTCACCAC AATTCTATAA TCTAGGAGTT GGCTCTCGTG GGTCGGCACA GGTGAGCTAG    180
GGTGCCCTGGT CCTGGTGGAG GGCAGGAGGC CCCCTTCCCC TGGCCTCCCT AGCCAGTCCC    240
CACACACAGC CCCAGTGGCC TCCACAGCTC CACCCTCCTT TCATGGCCGT TCTTTTCTT    300
AGATGCCAAA AGCAGAAAGC TCGAG          325

```

## (2) INFORMATION FOR SEQ ID NO:886:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:886:

```

GAATTCGGCC TTCATGGCCT AGGGAGAATT ATTTGATATT TGTGATACT TGACAGCAGA      60
TAATTTTTTA ACTGCAAGAC CACTAGAGGT CACCAGCGTA AAACTTTCAA CTTTGATTCT      120
GCTGGTAGTG AACTGAAAAG TTCAACTACT ATTCTGCAAT GTTTCCTTTG TTTCTTTTTT      180
TTTCTTTTTT TTGTTTGTAG ATGGAGTGTT GCTCTGTCAC CCAGGCTCGA G                231

```

## (2) INFORMATION FOR SEQ ID NO:887:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:887:

```

GAATTCGGCC TTCATGGCCT AGTTCAGAA GAAAAAAG AAAATCCATC CCTGCCACTC      60
ACAAGCTGCT ACCTACAGCA GATTACTATC CTAAGCCTCA ATTTTGCCAT CTGAAAAAAA      120
CAGAAAAAAC AGTTAATAAT ACCTCACCAG GTTCTTGCTA ATTCTTTAGT AACACAGAGG      180
AATCTTTTAG CCCTTCTTTT TTGTCTTAT AGCTTAAACC ATGCTGCAGG AAATGTATCA      240
ATCCAAGATA AAAGAGCTGA AATCCAAGAA CCTCCCCCTC ACATTTTGTT TGTGTGTTG      300
TTTTGTTTTG TTTTGTTTAG ACACAGGATC TTGCTCTGTC ACCCAGGCTC TCGAG          355

```

## (2) INFORMATION FOR SEQ ID NO:888:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:888:

```

GAATTCGGCC TTCATGGCCT AGCCACCACG CCCAGCCTCA ATTGCATTTC TACACACAAG      60
GAATAATCCA AAAAGGAAAT TAAGGAAACA ATTCCATTTA CAGTAGCATC AATATGAATA      120
AAATATTTAG AAATAAATT AACCAGTGAT GTACAGTGAC AGTATGTACA CTGAAAGCTA      180
CAAAACATCA CTAACATAAA TGAAGACAAA TTAGACATCC TGTGTTAATA CATTGGAAGG      240
CTCTTAAGCT GTCAATACTA AAGGTGATCT ACAAATTCAG TGCAATCCCT GTCAAAATCC      300
CAATGATGTT TTTTGAAGAA ATAGAAAAAC TCATCTGGGA ATTCATACGG AATCTCGAG      359

```

## (2) INFORMATION FOR SEQ ID NO:889:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:889:

GAATTCGGCC TTCATGGCCT ACTAAATTGG AATAAAAGTT TTAATAATAC TAACTTGTCT	60
TTTTTTTTTT TCTAAAATTG ATTCATTGC TACTGTAAAT AGTATAAATC TTAAAAGGGT	120
GAATTTTTTG GATGAAATTA ATGCTTATTC TTTTCTTTT AAACAGGGCA ATAAATGTGT	180
TCGTAAGTGC CAACCACTC GAG	203

(2) INFORMATION FOR SEQ ID NO:890:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 376 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:890:

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGGCC TTCATGGCCT AGTTGATTGG	60
TTTTCTTAGG TCAGCAATGA GTCTTAAAGA TAAAATTCT ACTGTGTAAT CTTTAGTGTT	120
TTCTTTTTTT TTTCAACTAT CTTTAAATCA GTTTCAAACA TTTCAGTGAT TAAAAGAGAG	180
ATTTGTTGTG GTTTGTTGT GGAGCAGAAA TGGATTTCAG GGAGTTTACC TTCAGAGCTT	240
TTGTTTTTGT TACGGTGGGT CTCTCTAGTG GAAAAAAAT TTCCCATCC CTTTGGAAT	300
ATTTTCTTTA AAGGAAATCA TGTTTTTAAA ACAAATTATC GAAATCAGCT TTCTAATCAA	360
TTGAATCAT CTCGAG	376

(2) INFORMATION FOR SEQ ID NO:891:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 335 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:891:

GAATTCGGCC TTCATGGCCT ACGCTTGTC GTGGCTTCTC TGAGAAGAAA AGTTGAAAAA	60
GGGTAAAAGT TTTCAGGAAT ATTCGGGCTC TCTATTGCTA AGCATAGCGA GTGTCGGTTT	120
TCTCTCTCCA ACAGACATCG CTATTGCGGT TCCGAGGCAG TGGGAAGAGA TGCGGCCCT	180
GGACATCGTC GAGCTGGCGG AACCGGAGGA AGTGGAGGTG CTGGAGCCCG AGGAGGATTT	240
CGAGCAGTTT CTGCTCCCGG TCATCAACGA GATGCCGCGA GGACATCGCG TCGCTGACGC	300
GCGAGCACGG GCGGGCGTAC CCACGGACCC TCGAG	335

(2) INFORMATION FOR SEQ ID NO:892:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 288 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:892:

GAATTCGGCC TTCATGGCCT AGTATCTTTA AAGTTAATGT CTAGCCAAGA GTTAGTAAA	60
CGAAGAATTA AACTGCACTG TTGATCGGTG CTTTGTGTAA ATACATCTTT AACATTGGGG	120
TGGAGAGGGG CCTTAAGAAG GACAGTTTCAT TGTAGGAAAG CAATTCTGTA CATGAGTTTA	180
AGCATTCTTG TTGCATTGTC TCTGCAGATT CTATTTTGT TTACAATATT GAAATGTATG	240
TTAGCAAAAT GGGTGGATTT TCAAATAAAA TGCAGCTTCC CACTCGAG	288

(2) INFORMATION FOR SEQ ID NO:893:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 493 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:893:

GAATTCGGCC TTCATGGCCT ACTCATCGCT AGTCCATATT TGGCCTCCTT TTAAGCAGTT	60
AATTAACAGG TATTTTATA GCATAATGGG TTTCCTCAAA CCACCACCA ACCAAAACCC	120
AGCCCTTGAT GATGACCTGC GCCCACCACG CAGGGCGCCC TTGATGCACA CGCACCTGCC	180
GCCCCCGCCC TGTGACCACC GCCCTGAGTG CCGGGCTCAT CATCCCTTCC ATGCCCTTTC	240
TACATTGCTA CTAAGAATCT GTGTGTATTC ATTAAGACCA TTACTTTTCT TTCAGATTTT	300
AAATTTATTA AAGGCTTTAG TGCTGAATGT GATTTTGAGG ACTCTTTTAA AAAAATACTT	360
TTGGTTGGAA TGTGGACATT TCCCACTTAG CATTTGTGTTG CTCATGTTCC TCCATATTGA	420
TGTGTGTTTA GCTAGAGTAC CCCCCTCTAA CTCTGCGAAT ATGCCACACT GTGTGCACCT	480
GCATACACTC GAG	493

(2) INFORMATION FOR SEQ ID NO:894:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:894:

GAATTCGGCC TTCATGGCCT AAAAAAGGA AATAGAATCC TATAATTTAC CATGAAAATA	60
TTATGAAAGA TACAGGTCAG CATGTATTGT AGGAGCAAAC TTAGTGGTCC TGCTGGTCTT	120
TTGGGTTTCAT TGGTTTGTGG TTAAGTTTCA AGTAAGTTCC CTCTGGTCT GGTGTGTTCT	180
GCTGCTGGTG AGCTCCAGCA GCTCAAACCA GCTCTCTCCC ATTAGTAAGC CATGCTAAGT	240
TTAGTTTAAC ACCCATAGTA GGCCTAAAAG CAGCCACCAA TTAAGAAAGC GTTCAAGCTC	300
AACACCCACA TACTCGAG	318

(2) INFORMATION FOR SEQ ID NO:895:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:895:

```
GAATTCGGCC TTCATGGCCT ACATTGAGTC AGTCACCAGG TGTTTTTTTT TGGTTTTGTT      60
TTATTTTGTG TTGTTTCTGT TTTGCACCTG CAGTATCTCG GCAGGTCAGA CTGTCATGCC      120
GTGCAGGTGC CAGCCCTCTC TCTGCTGTTT TTGCTCTTGT TGCTCTCAGA GCCAAGAGCC      180
ACTCTGCACC CAGAGGGCCT CCCATCCACA CCAGCCTGCC CTTTACTCAG CTCTCACTTT      240
CGTCATCACC TGTGGGATCC TGTCTGCAGA ACCCCCTCAA AACTCTTTC TTCACGGTGC      300
AGCTCCACCC ATCCTCGAG                                     319
```

(2) INFORMATION FOR SEQ ID NO:896:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:896:

```
GAATTCGGCC TTCATGGCCT AAGACAGGGA GGCAGACACA TTGAGAAATA ATACAAATTA      60
TTATCATCTT CATAAATAAT ATAGACAGCT CTGACGATAA AGGTGTGTAC CAGATATGAC      120
AGGAGCAGAG CTGAGGCATC CAGCACCTTC AGGGATGAGG GGTAATGGTG TTAGGAAAGG      180
TTTTCTGTAC TTCTCTACG TGGGTGCTTT TCTCCATCTC TACTTTCAA TCCCACCCAT      240
GCTAAGGCCT TATCCAAATG ACCACTGCCA GAAAG                                     275
```

(2) INFORMATION FOR SEQ ID NO:897:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:897:

```
CTCGAGTTCC CCCATCAGTC TATGTGCCCC ATGAGAGCAG GCACACATAG GAACAGGTCA      60
GTCAGTTCCT GATGCCCAGC ACAAGGCCAG GCACAGAGTG GCAGGGGAGT TGTGGGGCCC      120
CACAGACCAG AGGCCAGCGC CAATTCTGCC CCTGCTATTT GCATGCCCTC ACCTCTGTGG      180
GCCCCTGTCT GTCTGCGAGG ATTCAGGGAG TAAGTCCTGG AGCACAGCGC GGGTTGGAGC      240
ATGCAGAACT GCCAGGTGCT ATCAGCACCA TCATTCTTTC CACTCCCTAC TCCCTTTAGG      300
CCATGAAGGC CGAATTC                                     317
```

(2) INFORMATION FOR SEQ ID NO:898:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:898:

GAATTCGGCC	TTCATGGCCT	ATGACCTGGA	AGAGTGGTGC	GAAAGAGAGG	AAGGGGCAGA	60
GGCCAGGAGT	GTCATGCAAT	TGCTGTGCCT	CCTCACGGAA	TTATTGAGTG	TGTCCTCTGT	120
GTCATAGACC	CATCACAGTT	GTCTCTTCCA	GTAATTCGTG	AGCTCCCTAA	GGGCAGGGAC	180
TGTGTATACT	TCTGGGCGCT	AAAATGAGTG	TGAATCCATG	TCAGGCACTC	TGTGCCAGTC	240
TTTATTGGAA	ATATATGATT	TTATCTTAAA	TAGTTCTTCA	ATGTAGGTAC	TATCACTTGC	300
CCTGACTTTA	GAGATACAGG	CACTAAGGTT	TGTGGAGGTA	AATAACTTTC	CCAAGATCCT	360
CGAG						364

## (2) INFORMATION FOR SEQ ID NO:899:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:899:

GAATTCGGCC	TTCATGGCCT	AGGTGTTTAT	GGATATCCTC	CAGATTATTA	TGGATATGAA	60
GATTATTATG	ATTATTATGG	TTATGATTAC	CATAACTATC	GTGGTGGATA	TGAAGATCCA	120
TACTATGGTT	ATGAAGATTT	TCAAGTTGGA	GCTAGAGGAA	GGGGTGGTAG	AGGAGCAAGG	180
GGTGCTGCTC	CATCCAGAGG	TCGTGGGGCT	GCTCCTCCCC	GCGGTAGAGC	CGGTTATTCA	240
CAGAGAGGAG	GTCTGGATC	AGCAAGAGGC	GTTTCGAGGTG	CGAGAGGAGG	TGTCCAACAA	300
ACTCGAG						307

## (2) INFORMATION FOR SEQ ID NO:900:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 478 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:900:

GAATTCGGCC	TTCATGGCCT	AATTTCCATC	ANGAANTCNG	TGAGGTTCTC	AGATGTGGCA	60
ATGTCCACGC	AGTTTCGCAC	CANGGCATGG	CGGTTCTTGT	CTCCCATTTT	TGGCTGTCCC	120
AGGTAGCGCA	GATGCCAGGG	TGCCCCTGCC	CTGTCCATAG	AGCGTCGGGC	CCTGAGAACA	180
AATGGGCTGG	CTTGCTGGNC	CTTAAGGAGG	AATACCATCT	CATGGTCAAG	GAAAGTCTCA	240
GGTTCCATGT	TGTCACACAA	ACCACGAAGG	CGGTGGATGA	GGCTTTCCAA	ACTGTGATCT	300
AAAACACTTC	CCTGCAACAG	GTACTCCATC	ATGTTAATGG	TGCCCCCAGT	GACAGGGATC	360
ATGGTGACTG	GAGGTGCCTC	CATGGTGTCT	AAGTTGAAGA	CAACACAAC	GGACTCAGAG	420
CCCCCAGTCA	GGTAAGGAC	GGGATATACC	TCCTTGAGGC	TGTAGTGTCT	TCCTCGAG	478

## (2) INFORMATION FOR SEQ ID NO:901:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:901:

GTACCAGGCG	NATCCTGAAG	AGACACTACT	ACNACCAAAT	GGAACCCAG	AAGAAATAAA	60
ATGTTTGGAT	CNAATAAAGA	AAATTGAAAC	NACTGGTTGC	NACCNAGAAA	TAACATCATT	120
TGAAATTAAT	CTGAAGGAAA	AAAAGTACCA	GGAGGACTTT	AACCCGCTGG	TGAGAGGATG	180
TTCTGTGTAC	TGCTGTAAGA	ATCACACTCG	GGCATACTC	CACCATCTGC	TGGTGACCAA	240
TGAGCTGCTG	GCCGGAGTCC	TGCTTATGAT	GCACAACCTT	GAACACTACT	TTGGGTTTTT	300
CCATTACATC	CGGGAAGCAC	TAAAAAGTGA	CAAACTGGCA	CAGTTGAAAG	AGCTCATCCA	360
CAGGCAAGCA	TCTTGAGATC	TTGCAAATAC	AAGTCTCACT	CTTCACACTG	AGCCTGTACC	420
ACTGTTGTAA	CATGGGAAGA	CGTGAAGAAG	AAATAATCTG	AGCTCGAG		468

## (2) INFORMATION FOR SEQ ID NO:902:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 570 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:902:

GAATTCGGCC	TTCATGNNCT	AGCCAGGGAT	AAAAATACAA	TCTTCAAAGC	GGTCAGAGAA	60
AAAATGCAAA	TTATGAACAG	AGGCATCAAG	GTAACAATAA	CAGCCGAATT	CTGGTCAGAG	120
ACAATGCAAA	CCACACATGA	GCAGAGCGGN	CCCTTTAAAG	AACTCAAAGG	AAAGAAAAAG	180
TGAATCGACC	TGGAGCTCAG	AGCCAGATAA	AATATCTTGA	AAATATGAAA	GTAAAAAATA	240
GAGAAGAGGA	GCTCATGAGG	GGAGAGGGAC	TAGTGTAAGG	AAAGGTGTGT	AGGTGGGAAA	300
AGGNCCAGTG	TGTTCCAGCA	TAGATAAGAA	AAGNAGACCA	CGCNAAAAGG	TAGACGAACA	360
GGCAAGGTTG	GTCATCAGGT	GAAAAGACAG	GTTAGTGGAC	GATCAAAGAG	GNTCTTGACT	420
GCCGTGCTAC	AATAAACTAC	ATATTTTTTT	TTCAGGCAAA	GTAAGGATTT	CAGAGATGAT	480
TTTTAACATG	GGATGATATA	ATGCACAGTA	TTTTAGAAAT	ATTGTTCTAA	ATCAAGAGTG	540
GAGAACCAC	TGCGGAGACA	AATTCTCGAG				570

## (2) INFORMATION FOR SEQ ID NO:903:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 322 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:903:

GAATTCGGCT	TCATGGCCTA	CTCCCATCAA	ACTCCAGAGA	AGAGAGTGAA	TACTGGAGAA	60
GAAAGGAGGA	AAATATCTGA	GGAAGCAGCA	AGAAAGAGAA	GGCTGGAATT	TATTGAAAAA	120
GAAAAGAAAC	AAAAGGATCA	GATTATTAGT	TTAATGAAGG	CTGAACAAAT	GAAAAGGCAA	180
GAAAAGGAAA	GTTGGAAAG	AATAAATAGG	GCCAGGGAAC	AAGGATGGAG	AAATGTGCTA	240
AGTGCTGGTG	GAAGTGGTGA	AGTAAAGGCT	CCTTTTCTGG	GCAGTGGAGG	GACTATAGCT	300
CCATCATCTT	TTTCTTCTCG	AG				322

## (2) INFORMATION FOR SEQ ID NO:904:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 330 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:904:

GAATTCGGCC	TTCATGGCCT	AAATGTATGT	AAGGTACAGA	GAGGATGTCT	GGAGGTGCGC	60
CCTGTGGATA	TCTTAAGCCT	TTAAGGGTGA	GCAAAAAACA	ATAGGTTCAC	AAAGGAAAAT	120
GAGAATGGGC	TATGAGAAAG	GTAAGAGGAA	AACCAAGGAA	AGAGAACGTT	TTGAGACAGT	180
AGTAGTGGTC	AGCAATGTCA	AATTGCTGCA	GAAATTTTCT	AAGAGTGAAA	TTGGGTTTAG	240
CAGCTGCAAG	AGGAGTTCAT	TTAATTGGTG	TAGCAGAAGC	CCATTAGATT	GCAGTGTGAT	300
GAGAAATTAT	TGGGAACAAG	GATACTCGAG				330

(2) INFORMATION FOR SEQ ID NO:905:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:905:

GAATTCGGCC	TTCATGGCCT	AGATGCCGCC	ATCTACCAGG	CCTCTGCCCC	AGAACAGCAA	60
GGGCATTGTG	TCCTGCTCAG	GGGTCTTGGA	GGTGGGCACC	ATGACTGAGT	ACAAGATCCA	120
CCAGCGCTGG	TTGCCNAGT	TGAAGCGCAA	GGCTGCGGCA	AAGCTGCGCG	AGATCGAGCA	180
GAGCTGGAAG	CACGAGAAGG	CGGTGCCTGG	GGAGGTCGAC	ACTCTGCGCA	AGCTCAGCCC	240
CGACCGCTTC	CAGCGAAAGC	GGCGATTGAG	CGGGGCTCAA	GCGCCGGGCC	CCTCGGTCCC	300
TACCAGGGAG	CCTGAGGGTG	GGACCCTGGC	GGCTTGCAG	GAGGCAGAGA	CTGAGACTGC	360
TCAGCACTCA	GGTTTGGGCC	TGATCAACAG	TTTTGCTTCT	GGAGAAGTGA	CCACCAACGG	420
GGAGGCTGCC	CCCGAGAATG	GCGAGGCTCG	AG			452

(2) INFORMATION FOR SEQ ID NO:906:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 518 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:906:

GAATTCGGCC	TTCATGGCCT	AGCCATGGAT	TTAAAGAAAT	TGTGACTAAA	CCAATGTTTT	60
AGCATTGATA	AATGGGAAAT	TGCGGAAGGA	TGTAAACGTA	GAGTTTAACT	CTACAACTTG	120
GCTTAGGGAC	TCAGGTATGG	ACAGTGAGAA	TAACTTGGTT	TAGGGACTCA	GATATGGACA	180
GTGAGACTGG	CCACATGAGT	GCCTTTCTCA	CTGTCACT	CTTACCCAGG	TTGGAGTGCA	240
GTGGCTGTGC	ACAGGTGTGA	TCATAGCTCC	CTGCAGCCTT	GAATTCCTGG	GCTCAAGCAG	300
TCCTGCCTCA	GCCTCCCAAG	GAGGTGGGAC	TAAAGATGGT	GTGCCACCAC	ACCTGGCTAA	360
TTTTTAAATT	TATTGTAGAG	AAGGGGTCTT	GCTATGTTGC	CCAGGTGGT	CTGAACCCC	420
TGACCTCCAG	GGATCTCTCC	TGCCTTGGCC	TCCTCAGGAG	CTGGAACCTAC	AGATATATGC	480
TAATGTCTTC	AATTTATGGA	AATGCAGAAA	TGCTCGAG			518

(2) INFORMATION FOR SEQ ID NO:907:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:907:

GAATTCGGCC	TTCATGGCCT	ACTTGCTGCT	GCCTTTGAC	ATCAGCTGA	AGAAGAATAC	60
CCACACCTAC	TTCTACACCA	GCTTTGCAGC	CTACATCTTC	GGCCTGGGCC	TTACCATCTT	120
CATCATGCAC	ATCTTCAAGC	ATGCTCAGCC	TGCCCTCCTA	TACCTGGTCC	CCGCCTGCAT	180
CGGTTTTCCT	GTCCTGGTGG	CGCTGGCCAA	GGGAGAAGTG	ACAGAGATGT	TCAGCTACGA	240
GTCTCTGGCG	GAAATCCTGC	CTCATACCCC	GAGGCTCACC	CACTTCCCCA	CAGTCTCGGG	300
CTCCCCAGCC	AGCCTGGCCG	ACTCCATGCA	GCAGAAGCTA	GCTGGCCCTC	GCCGCCGGCG	360
CCCGCAGAAT	CCCAGCGGTC	TCGAG				385

(2) INFORMATION FOR SEQ ID NO:908:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 630 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:908:

GAATTCGGCC	TTCATGGCCT	ACCCCTGTCC	ACTTTGGTCA	CTGTTGGCTG	GGGCCCCGTGG	60
AGCTGTCCAG	AGGGGACCGG	GGCCAGTAGA	GTAGAGGACA	GTATTTGTAG	AGCAGGCATT	120
TCTTCTGAGG	TTCCTTGGGA	TCCCTGAGC	TATGAAAGCT	GGAAGCAGTT	GAAAGTTTTC	180
AGGGAGAGGG	ATGCTGGAGT	CTCAGAACTT	TAGAGGTGCT	GCAGGAGTCA	GTTCTGGCAG	240
TGAGAGAAC	CTTGGGCGGG	TTTCACACAC	ACACAGCACT	TGAGCCATTC	TTGGGCAGAA	300
GGGGCCTCAC	TTCCAAGCAC	AAGGAGTGT	AACGAAAAAT	TATTAACATG	GTAAGGAAGA	360
CTTTATTTCAG	GGCCATTGCA	GTAGGCATCC	CAATAGTGGG	GAGAGATGGG	GCTCAATTCC	420
AAGTACAAGA	AGAACAAGTG	GGCACTTAGC	CAAGGAGCAG	GTGGGAGGGG	GTCAGAGGAT	480
AGAAAATTAC	TAAGAGGAGA	CGTCAAGGTT	AGGGGGATT	TTGCTGAAGT	CAGGCCAAGG	540
AGCAGGTGGG	AGGGGGTCAG	AGGATGGAAA	ATTACTAAGA	GGAGACGTCA	AGGTTAGGGG	600
GATTCTTGCT	GAAGTCAGGC	CTTGCTCGAG				630

(2) INFORMATION FOR SEQ ID NO:909:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 678 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:909:

GAATTCGGCC	TTCATGGCCT	AGACGGTGAT	GTTTTTGGTA	AACAGGCGGG	GTAAGATTG	60
CCGAGTTCCT	TTTACTTTTT	TTAACCTTTC	CTTATGAGCA	TGCCTGTGTT	GGGTTGACAG	120
TGAGGGTAAT	AATGACTTGT	TGGTTGATTG	TAGATATTGG	GCTGTTAATT	GTCAGTTCAG	180
TGTTTTAATC	TGACGCAGGC	TTATGCGGAG	GAGAATGTTT	TCATGTTACT	TATACTAACA	240
TTAGTTCTTC	TATAGGGTGA	TAGATTGGTC	CAATTGGGTG	TGAGGAGTTC	AGTTATATGT	300
TTGGGATTTT	TTGAGGGGTG	TAGGGATGCG	AGCTCTGGAG	GGGACCCTCC	TTTCAGGACA	360
GCGCCCTGGC	CCCCAGTGCC	CCACTCACCT	TCCTGGGCGG	GAACCTCAAG	TGCAGCCAGG	420
CTGGGGGACA	GAGTTCCCCC	CAAGCTGAGA	CAGGAGGGGT	CTCAGGCGGC	AAAATTCCTC	480

CTCCAACCTCC TGGTGGGGTG GGGGTCATGG ATGAGGGGGG CCCCTTCCTT CCCCAGCCCCA	540
CTCAGGGCAC CCCTGGCCCG TCCCGCCCCA CCTCCAGCTG CTTCATGGTC TCCTCCAAGC	600
TGAGCAGGTT CTCCTGGATT TCCTGGGTCC GTGCTGGGCT CAGGGGGCCG CCCCTGGGA	660
CCCCATCCCC ATCTCGAG	678

## (2) INFORMATION FOR SEQ ID NO:910:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 634 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:910:

GAATTCGGCC TTCATGGCCT AAGAAGAGGA GGAAGAAGAC GGGGCTGCAG TTGCTGAGAA	60
ATCACATCGA AGAGCTGAAA TGTAGCGGCA CCCAATTCT AGACAACGCT CAGCCAACGG	120
ATTCTTTTCA AGCTGCTCAA ACATAAATCT GCCTACTGAA CTCTAGGATA TTTAATTACA	180
AAAATTAAGA ACTTAGACTT TTTTAAACT TTTGTATTAG AAATGCGCAT ACATTTATAT	240
GAATATATTT TGATAACGTA GGTCTAGAGC TTCTTTTATA TTCAAGCTTA ACATGANAAA	300
GAAGAAAAAC AATAAAGTAA ACCTGAGCCC CCACGTCCCA ATTTTTTAAAT AGATTATGTG	360
ATGTTGGAAA GCTCATTGAT TTTGTATATG TTTCAGCGTG TTACCTTTCT GGCTTCCAGT	420
TCCCAGGTGT TCTTTGTTTG CCTTTGATAA AATACAGGAT TTAAGAACAG AGAGTACTGC	480
AAAATGCCAT GCAGACTTTA AAGAGAATGG CTTGTTTACT AATTGCTGCC CTTCTGATGT	540
CTTTATGTAT AGCTCTGATA GAATTTTCAC CAGTCTATGT ATCTCTGGAG TGAGATCCTA	600
TGTACAAAGT GACATACAAT TGGAAATCCT CGAG	634

## (2) INFORMATION FOR SEQ ID NO:911:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:911:

CTCGACCTTC ATGGCCTAAT GAGCTGTTTT GTAAACGAGA TTTGTTTTGT GGGAAAGGGA	60
ATTTTGTTTC AAGACTTCCC TAAGAACTG ATAGCATCGG GTAATCTTA AATTTGACTT	120
ATCATAATGG TATATCTGGA AGGAATTGT CAACTGATAT GTTATAATTA TTTTAAATT	180
TTTTTAAATT TTTGAGATAG GTCTTACTCT CTGCCCAGA CTGGAGTGCA GTGGTGTGAT	240
CATGGTTTAC AGCAGCCTCA AACTCCTGGG CTCAAGAGAT CCTCCACCT CAGTCTCCTG	300
AGTAGCTGGG ACTAAAGGCA TGTGCCACCA TGCTGGCTA GTTAATTTTT TTTTTTTTTT	360
TTAAGTAGAG ATGAAGTCTT GCTGTGTTGT CCAAGCTGGT CTCACACTCC TGAGCTTGAG	420
CAACCCTCCT CTAGCCATG AAGGCCGAAT TC	452

## (2) INFORMATION FOR SEQ ID NO:912:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 503 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:912:

```

GAATTCGGCC TTCATGGCCT AGCGGGCTAT GTGGCTGATT GAAGAGTATG CAATGAGCGA      60
TTTTAGGTCT GTTGTGCGTA GGCAGATGGA GCTTGTTATA ATTATGCCTC ATAGGGATAG      120
TACAAGGAAG GGGTAGGCTA TGTGTTTTGT CAGGGGGTTG AGTTTGATGA GTTTAGGCAG      180
GGCCTGGATC ACCTCTTTCT TCTCCAGCCC ATTGAGCACC GGGATGAGGA AGCGGACGTC      240
TGGCAGTCGC TTGTGGTAGA GATCCCGGAC CCGCTTCACC AGCTCTGGGG AGGGTGGGAC      300
TTTGTCTGTG AGGCTGTGCA GACATCTCGT GACCAGTGTC TCTGCTCCCT TGGGACAATT      360
TTCCACCAGC AGGAGCAGCT CCGGGGAGTT CATGCCATT CCTCGGATCG GCTGCTCAAT      420
GACCCTCAGC ACCGTCCGCT TGATGTCGGC GATGGCTTCA GTGTACACGG CCGCCAGTTC      480
GTGGATCAGC TTGTGGGCTC GAG                                          503

```

## (2) INFORMATION FOR SEQ ID NO:913:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:913:

```

GAATTCGGCC TTCATGGCCT AAAAGATATT ATTTTAAATT AATTTGAAC TATAGAAAAG      60
TAGTACAAAT AATTCAGAAA ACTCCCATAT TTACTTTACA TGGATTCACC AATTTTAAAC      120
ATTTTGCTAC ATTTGTTTGC TTCTCTCGCT GTCTCTACAC ACACATACAC ACACAAATTT      180
TTGGGAGGTC TAGTGACGTC CCCGGCCGGC CCAGGAGGAC AGGAAAACAT CACTCAGGAA      240
GTCATCCTTG GCCCGAGGCC GCTTTGTCCT GTCCTTCTGC AGGAGGCCCT CCAGGAGGTG      300
TCTTGCGGAA TTTGTAATAT TTGGTTTCAT CTCGAG                                          336

```

## (2) INFORMATION FOR SEQ ID NO:914:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:914:

```

GAATTCGGCC TTCATGGCCT AGACAGTCAA TGTGGATGAG AACTAATCGC TGATCGTCAG      60
ATCAAATAAA GTTATAAAAT TGCAAAAAAA AAAAAAAAAA AAGAAGTGAG GATGACAGGA      120
GAAGGTAGAT GGTGCAACAT GAGGGTGCTT TCTACCAACA AGGTGTGCAG CATTGGACAC      180
GCATGACCAC GTGACCTGCA GCTCTGATGG TGCAACATGA GGGTATGTCC TACCAACAAG      240
GTGTGCAGCA TTGGACATAC TTGACCACGT GACCTGCGGC TCTGAAGGTC CCACCTGTTC      300
TCGTTCTAAA GTCACCATTT CTGACCGCTG TGCTGTGGAA GGGGAGGCAA TCAACCAGAA      360
CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:915:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:915:

```

GAATTCGGCC TTCATGGCCT AGGCAACAAG AGCCCTGAAG TGCTCCGGGC ATTTGATGTA      60
CCAGACGCAG AGGCACGAGA GCATCCCACG GTGGTACCCA GTCATAAATC ACCTGTTTTG      120
GATACAAAGC CCAAGGAGAC AGGTGGAATC CTGGGGGAAG GCACACCGAA AGAAAGCAGT      180
ACTGAAAGCA GCCAGTCGGC CAAGCCTGTC TCTGGCCAAG ACACATCAGG GAATACAGAA      240
GGTTTACCCG CAGCGGAAAA GGCCAGCTC AAGTCTGAAG CCGCAGGCAG CCCAGACCAA      300
GGCAGCACAT ACAGCCCCGC AAGAGGTGTG GCTGGACCAC GTGGACAGGA TCCGGTCAGC      360
AGCCCCCTGTG GCTAGAGGAA CACCACTCGA G

```

(2) INFORMATION FOR SEQ ID NO:916:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:916:

```

GAATTCGGCC TTCATGGCCT ACGGGTGTTC GAGGAGTACA TGCGGGTTAT TAGCCAGCGG      60
TACCCAGACA TCCGCATTGA AGGAGAGAAT TACCTCCCTC AACCAATATA TAGACACATA      120
GCATCTTTCC TGTCAGTCTT CAAACTAGTA TTAATAGGCT TAATAATTGT TGGCAAGGAT      180
CCTTTTGCTT TCCTTGCCAT GCAAGCTCCT AGCATCTGGC AGTGGGGCCA AGAAAATAAG      240
GTTTATGCAT GTATGATGGT TTTCTTCTTG AGCAACATGA TTGACAACCA GTGTATGTCA      300
ACAGGTGCAT TTGAGATAAC TTAAATGAT GTACCTGTGT GGTCTAAGCT GGAATCTGGT      360
CACCTTCCAT CCACACTCGA G

```

(2) INFORMATION FOR SEQ ID NO:917:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 621 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:917:

```

AGATGGACTG GCTTCAGCTG GTTTTGGAGG TGCTTGTTT TGGAANAAAT GCAGGGATGG      60
CAGANGCCTG GCTCTGCAGC CAGGANCCAC TGGTGCGCAG CGCTGAGCTG GGTGTCACGG      120
TCGACGAAGT TGAGAGCCTC ATCAAGCGGC ACGAGGCCTT CCAGAAGTCA GCAGTGGCCT      180
GGGAGGAGCG ATTCTGTGCG CTGAGAAAGC TTAATGCGCT AGAGGAGCGG GAGAAGGAGC      240
GAAAGAGAAA GAGGGAGGAG GAGGAGCGGC GGAAACAGCC GCTTGCTCCC GAACCCACAG      300
CCAGTGTGCC TCCAGGGGAC TTGGTGGGCG GCCAGACAGC TTCTGACACC ACCTGGGACG      360
GAACCCAGCC ACGGCCACCA CCATCCACAC AAGCACCCAG TGTTAATGGA GTCTGCACAG      420
ATGGAGAGCC CTCACAGCCC CTGCTGGGAC AACAGAGACT TGAGCACAGC AGCTTCCCCG      480
AAGGGCCGGG ACCTGGCTCA GGGGACGAAG CCAATGGGCC CCGGGGAGAG AGGCAGACCC      540
GGACTCGGGG CCCGGCCCCA TCTGCAATGC CCCAGAGCAG GTCTACCGAG TCAGCCCATG      600
CTGCCACCCT GCCGCCTCGA G

```

(2) INFORMATION FOR SEQ ID NO:918:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 547 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:918:

```

GAATTCGGCC TTCATGGCCT AACATGGGTG ACACGGATGT CTATAGTGTC CACCACATTG      60
TCTGGCATGT GGAGGAAGGA GGCCCAGCCC AGGAGGCAGG ACTCTGTGCT GGGGACCTCA      120
TCACCCACGT GAATGGGGAG CCTGTGCATG GCATGGTGCA TCCTGAGGTC GTGGAGCTGA      180
TCCTTAAGAG TGGCAACAAG GTAGCAGTGA CCACAACGCC CTTCGAAAAT ACCTCTATCC      240
GCATTGGTCC CGCAAGGCGC AGCAGCTACA AGGCTAAAAT GGCTCGGAGG AACAAGCCAC      300
CCTCCGCCAA GGAGGGCCAG GAGAGCAAGA AGCGCAGCTC CCTCTTCCGG AAGATCACGA      360
AGCAGTCGAA CCTGTGTCAT ACTAGCCGCT CGCTGTCGTC GCTGAACCGC TCGCTGTCAT      420
CCAGCGATAG TCTCCCGGGC TCGCCTACGC ACGGGCTGCC GGCGCGCTCG CCCACGCACA      480
GCTACCGCTC CACGCCTGAC TCCGCCTACC TAGGCGCCTC ATCCCAGAGC AGCTCCCCAG      540
CCTCGAG                                         547

```

(2) INFORMATION FOR SEQ ID NO:919:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 610 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:919:

```

GAATTCGGCC TTCATGGCCT ANACACTCTT CCTCTTCTCC TTTTTCCTTT AGAGATATGA      60
ATCAGGTTCT TGATGCCTAT GAAAATAAGA AGCCATTTTA TCTGTACACG GGCCGGGGCC      120
CCTCTTCTGA AGCAATGCAT GTAGGTCACC TCATTCCATT TATTTTCACA AAGTAAGTAT      180
NGGATCTTAT GGCTTTTCTT ACTCTCTTAG TGAATTGAGA ATGTTGCTTA TAAACCATGT      240
TTAGAACTGA CAAGATCATG CTAGTTCATT TGCTGAGCAA CCAAGATGTC AAGAGTTGGC      300
ACTTTTTTGG CTTCCATTCA CTTGTTCCT GGGCTCACTT TAGAGGACCA TGGAGTGATG      360
GGGAGAGCGC AGCTTTGGAG TCAGCCAGGC CTGCTCCTCT TCTCATCCTG CTCCCTGTCT      420
GCATGGCCAT GGGCCTGCTA CTTCTCTGAG CTTAAGTTTC CACATCTGCA AGATGAGAAT      480
GAAGATACCT ACCTCATAGA ACTACTGTAA AGCTTCAAAA CAAAGTGTGT AGAGCAGCTA      540
ACACAGAGCA CACAGGCCCA CTGGTTCGAT AAATGGTAGT AGACCTTATC ATTATCCATA      600
GTCCCTCGAG                                         610

```

(2) INFORMATION FOR SEQ ID NO:920:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:920:

```

GAATTCGGCC TTCATGGCCT ACTAACTCTC CTTCTCAAAA CACCAAAAGT AAATTTTAAT      60
ACCCAAAACG AAATTCATTT TGTTAATCAC AGCTTAGAAG GTTTCATATG ATCTGGCCAA      120
ATCTGTATCT TGCATCACTC TTATCACTCC CCCTCTCTGC TCACTGTATC TGCATGATAG      180

```

GAATCAGCTC ATCTTCCTAT ACATCAGTAC TAAAACAACC TCACTCCTAC CTGAGGCCCT	240
GTGTGCTGTC TGTAGATGGT CCATCTTCTC ACTTCACTCA GGACTCAAAT GTCCCTCTT	300
CACTCGAG	308

## (2) INFORMATION FOR SEQ ID NO:921:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:921:

GCAACCGGGT TTTGCCAGGG CCTATTGCAC CAGAGAGCAG CAAGAAGCGG GCCCGTAGGA	60
TGCGACCAGA CCTTTCTAAG ATGATGGCCC TCATGCAGGG TGGAAGCACT GGGTCTCTAT	120
CTCTGCATAA CACGTTCCAA CACAGCAGTA GTGGCCTACA GTCTGTGTCA TCTTTGGGTC	180
ACAGCAGTGC CACTTCTGCA TCTTGCCTT TTATGCCATT TGTGATGGGT GGTGCACCAT	240
CATCCCTCA TGTAGACTCC AGCACCATGC TTCATCACCA CCACCACCTC GAG	293

## (2) INFORMATION FOR SEQ ID NO:922:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 492 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:

GAATTCGGCC TTCATGGCCT AGTGGGGCCT GTTTATAGTT GACTGACAGT AAGTTCTATA	60
TGGTATATAA CACTAATCT CTAGTCTTCT GGGCATATCT ACGAACAAAT ACAATCCAAA	120
TATTATGAGT AACTGGGTTG TGACCACTGC ATGCATTACA CTGAAAGAAA CACCAACTCG	180
AAGCACAAAT ATATTATTAT TATATTTCCG CTCAGCTCTC AGTGGGGAGA GCAGCTACCT	240
CGGACCACAA TGCCATTTAA ACCAGATTCT TTTCAAATAA AATTCTCAAT CTAAGTGGAA	300
AGCCCCCTCA GAGAATGCCT TATTCCTTA CTAAGCAATC CAGGCTTGTA TAAAACGTCT	360
GATAAGGCCT GTAGTGCCCA TTGAGTATGA GTCTGCTGTT TACATTCTGC ACAGGCCAGG	420
AGGGGAACAG AAGGTGTGAG CCACAGGTGC TCCTGGGTCT GACCAGCAAG TCTAACCCAT	480
GAAGATCTCG AG	492

## (2) INFORMATION FOR SEQ ID NO:923:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 650 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:923:

AAATAACCAC AAATATNAAG AAATTATAAT CAGGGCAACA GATTAAAATG AAAAGGGGTA	60
TAGAAAGATA TATTTTAGAT AATATAAACT CCTGACAAGC TATGCCCTAG AATTGCAGCC	120
TCCAAACCTT GCCCANGATT TCCACCTTTC CATAGCCTCA CTTCAAGTTC AAATGGAAAT	180

GAAAAACAAAA TAAAGTGAAC AGGTGGTTGA GCCAGCCNAA GCCTCCCAAG TTATGTTAGG	240
TGGACAGTAA GACCAGGTGG ACAGCATTTG AGAAACTGGC TGGACACAGG GGAGCTGCTA	300
CTGGTAGTTA TATTTAATTT GGAGGAATTT CCAGCCCACT GATAAAGAGA GAAACCAAGG	360
AACCAATGA CTTTCTAGT AACATATAAT ATATGAGATG AAATATAATT CTGTTAGAGA	420
GGACATGGTG GTGAGATGGG AAAGAAAAGA GAAGAGAAAC AGGCAGACTT CGGGCACCAT	480
CTCCCTTTGT TTTCTACAAT GCATTGGTTT CCTTCTGTTG CGGAGCATTG TTTAGGATTA	540
GCTACAGACC CCAATGTCCT CTGAGTAAAT ATATGTCAGC TCAGCTCCTG ACATGATATC	600
CATGCTTATT GGCCTCCTGG AGGGCTGGGT GGTTCCTCAGG GTCCCTCGAG	650

## (2) INFORMATION FOR SEQ ID NO:924:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 527 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:924:

TGAGCTGCGC TAAACTCCAC CGTGACCTCA AACTCTTTGG ACTGTTTGAA AAAAAAAAAA	60
NTNGGAAGAA ANTCCATCCT CCAANANAAT CGGCTTAGGA GGAGATGGAA CTTTNCCTCT	120
TTCTCTNGGT TTNGTCCGTC TGGTGGTCTC GAACCTGGGA TTCGGCGAAT GCGGATTGCA	180
TCATTCACAT CGGAGCAATT TTTGATGAAT CTGCCAAAAA GGATGATGAG GTATTTTCGCA	240
CTGCGGTTGG TGACCTTAAC CAGAATGAGG AGATCTTACA GACTGAGAAA ATCACATTTT	300
CAGTGACGTT TGTTGATGGC AACCAACCCTT TCCAAGCAGT TCAAGAAGCC TGTGAACCTA	360
TGAATCAAGG CATCTTGGCC CTGGTCAGCT CCATTGGCTG CACGTCAGCA GGATCCCTCC	420
AGTCTTTGGC AGACGCCATG CATATCCCCC ACCTCTTCAT TCAGCGCTCA ACAGCTGGGA	480
CCCCAAGGAG TGGCTGTGGA CTCACCCGGA GCAACAGGAA TCTCGAG	527

## (2) INFORMATION FOR SEQ ID NO:925:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:925:

GATTCGGCCT TCATGGCCTA GAACTTTCTA CTTGGACAAC TAACACCCAC AGTCCTCCAG	60
ACAGAAAGAC AACAGGTACA AAGCCCTAAG GATTATAAAG GTATGCTGCT TACCATCATC	120
TTAGTGACCA AGGCAGCGAA GCTGTTTCTG TACCTTGGA CAGTCTTCCC TGACAAGCCA	180
GAGAACAGTG ATAAAGCCAC CAGCCTTGGG ATCAGGACTG AAAAGGCAAG AGTGATGGAG	240
ATTTCTCCTG CGCTAAGCCA AGAGAAGGTT TCAGCACTTC AGACAGCTCC CACCGAAGTA	300
GCCGATCTCG AG	312

## (2) INFORMATION FOR SEQ ID NO:926:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:926:

GAATTCGGCC TTCATGGCCT AAGATGTTTG TCTTTATCCA GTAAGGTGTT TGTATGCTCC	60
TTAAGTGGCA GCGGGGAGTG AGCAGAGCAG TGAAGATAAA CATGAAAGCT GGTGGTAACA	120
AATCCTGATA CCTCCTCTAT TCCAAAAGGA AAGGCAGAAC TCAGAGGCAC CATCCTCCTG	180
TTGTGTTTGC AAGCTGTTGA CACAACCTGG AAAGGTTAAA AGTTTCAAC AGACTTGTC	240
GAGTTTGTGT TCAATGGAAA CTGACAGAGC CTACCGGCTG AGGGGCTAAT TTTAATAGAA	300
ATAACCTAGG TGC GCGCTCG AG	322

## (2) INFORMATION FOR SEQ ID NO:927:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:

GAATTCGGCC TTCATGGCCT AGTGGAATA GACTGCCAGC TGTGAGCCTC AGAGCTCCTG	60
GCTGCCTGTT GCTGAGTCTA TCAGTGCTG AGCCTTTCTC ACCNNAAAAA AAAAAAAAAA	120
AAAAAAAAAN TGNGCTTAAT AAAATAACCC TGCACAGAAA TTTTCTGAAA TTAAGATAAC	180
ATTCAATGGA AAACAGAATT TAATCTACAG AAATACACTT CACAGATGTT TTAGGAACAG	240
AACCTAGAGA AAATGAAAGT CAAAATTTAA TAAAAGAATT TGTCAGGAAC TTCAAGGTAA	300
AGACTCCATG TATTTTGTGG CAACTATAAA ACATAAGAA GGCTTTTAA ATATTAAAAA	360
GCCATTTAAA CACTTCAAAT TAAGATTCTT CAATATACTT CAGATTTCTG TACTGAGTTA	420
CCCTCTCGAG	430

## (2) INFORMATION FOR SEQ ID NO:928:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 498 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:928:

GAATTCGGCC TCATGGCCTA CGTAGTGTG TGGATAGTAT GTGTGTGTCC GCACTCATGA	60
TAACTTGAAA CCAGACATAG GGTTCATTTT TGAAAGGTTA AACCACACTG TTTCAGGAAC	120
TGCTCCAAA TACTACTTGG TTATCCCTTC CTTTACCAGT TAGAACTAAA GAGTGTGATG	180
TATGAACACA CTGGGTTGGG ATTTTCTGTT GAGGATATGC AGGGCATTTT GGCATGAGGC	240
AAATACAGAA GCAAGATTTC ATTCTACTTG GTGATTGAA TCATGACAGT CCTCATTTCCA	300
ATCTCTCTTT AATTCTCTCT GGCCTGCCC AACTCTGTA TTTGAAAATC TGTTTTTGC	360
TCTTTCCGGA GCTTCACCCC TCTACTTACA TATTGTAAAG TTGTATAAAT CTATCATTGA	420
AAGGTCCTCT CTGCCAGCAG TGGTGCCACC CTTTGGTTTG CTGTGGTACT TTGCTGTGTA	480
CTCCGTGGCA TACTCGAG	498

## (2) INFORMATION FOR SEQ ID NO:929:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 566 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:929:

```

GAATTCGGCC TTCATGGCCT AGTTAAGGGC ATTTACTCAT GTTGAACCTA GTTTTATTTA    60
CAGTATATTT GTATGCATAG AAGATGGAGG TCCACCAAAG TGTTAATTAT GCTTAGTTGT    120
AGGTCAGGTA TAGCTAACTT TCCTTTTTTA ATATATATAT TTACATTGTG GTTTCCTTTA    180
TAATTTATGG CATAGATTGC CACGATTTTC TTAAGTATAC TTTTATAATC AGAAAAATGA    240
TATTAAGGAC TCATTTTAAG TACACTAAAT CAAATATTAG AAGGCTTCTT TATTTTAAGC    300
TAATTGTGAG GATTATTGTG CATTTAAAC TTTTGCTTCT ACTTATTACC CTGAAGTATC    360
TTTGTTGGTG TTATGTTTTT CACAGACTGT ATAAATTGAT ATACTCTCCC GCCCCATGGT    420
AATGTTGCTA CACATAAGCT CTAATAATTA TCATTTTTAA TGTTTAAAGA TTAATTCAAC    480
TAAGTTTAA AAATAATCCA TTGGTTACAT ACATAAGAAA GTACTGTATA CAGATTCCCC    540
TGACTTATAA TGGTTCGACT CTCGAG                                     566

```

(2) INFORMATION FOR SEQ ID NO:930:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 506 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:930:

```

GTGATATGAC ACTGACAGAA TTCAAGTTCA TCTGGTACAT GGAGTACTCA CACCGAATGT    60
GGGGTCGCCT TGTAGGCCTT GTGAACATCC TGCCTGCTGC CTACTTTTGG AGAAAGGGCT    120
GGCTCAGCCG TGGCATGAAA GGACGTGTC TTGCCCTCTG TGGCCTCGTC TGCTTCCAGG    180
GTCTGTTGGG ATGGTATATG GTGAAAAGTG GACTAGAAGA AAAATCAGAC TCCCATGACA    240
TCCCTCGGGT CAGTCAGTAC CGCCTTGCTG CCCACCTGGG ATCAGCCCTG GTTCTTTATT    300
GTGCCAGCTT GTGGACCTCA CTGTCACTGC TACTCCCTCC GCACAAGTTG CCTGAAACCC    360
ACCAACTCCT ACAGTTGAGA CGATTGCTC ATGGAACAGC AGGTCTGGTG TTCCTTACGG    420
CCCTCTCAGG GGCTTTTGTG GCAGGGCTAG ATGCTGGGCT TGTTTATAAC TCCTTTCCCA    480
AAATGGGAGA ATCCGGATCC CTCGAG                                     506

```

(2) INFORMATION FOR SEQ ID NO:931:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:931:

```

GGGAAATTAG AAAGGGAGGG CCTGAGTTGG TTGCTATTCC TGAAAGTTTC TTTGAATGGA    60
ATACTGGATC ATCGTTTTTG AAGAGGTCTG TTGTTACTTC ATTATTACCT CCTTTAGCAG    120
CACCCTTGTT TTCCTCCAAC CTCTGCCAAG ATTAGTGTC TGTGTCTACA TTTGCCCCCTT    180
CTGTTTCTCA TACTCCCAGA TGGAAATATT ATATTTCTTA GGACTTTTCG CTCTATTGTA    240
ATTAGTATTT TCTACTCGAA ACACCCTCGA G                                     271

```

(2) INFORMATION FOR SEQ ID NO:932:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:932:

```
GAATTCGGCC TTCATGGCCT ACATTACTT TGTTACACA GGGCACTACT TTGATTCTA    60
TTAGTGCTGT TTGTGATTGT GTATGTCTTT CACTTGAAAT CCACCATGAA GGTGAAAATT    120
TGTTTGAACC GTGGCACTAT ATGGCAGTGC AGTGTAGTCA GTTGTGTTTG TAGTCCGGAT    180
TATCAGAGCT TGAATTCTGG TTCTGCTGCT CACTAGCTTC TTCTTGACA CTGTTTCAGT    240
GTA CTCAGCC TCACCTTTTA TTTTATTTCT ACAGAGTCCC ATTTGGTGTG TAAGCTGGTC    300
TCGAG    305
```

(2) INFORMATION FOR SEQ ID NO:933:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:933:

```
GCGGTGGCAC GATCTCGGCT CACTGCAACC TCCACCTTCG TTCAAGCGTC CACCATGCCT    60
AGCTAATTTT TTTGTATTTT TGGTAGAGTC AGGAGTTCGA GACCAGCCTG GGCAACATGG    120
CAAAACCCCA TCTCTACTAA AAATACAAAA TGTACTCAGG CGTGGTGGTG CCCGCCTGTG    180
ATGCCAGCTA CTCAGAGGC TGAGGTGGGG ATCACCTGAG CCCAGTATGT CGAGGCTGCG    240
GTGAGCCATG ATTGCGCCAT TGCACTCCAT CCGGGTGAGA CTGAGACCCC GTCTCCAAAA    300
AAAAAAAAAA AAAGAAAGTG AAATAATTTG TGGACAACAC AGAATTACAA ACTTTTTATT    360
TTGTCTTTT AAAGTTACCA CAAATTGTCA CCACCATTCT CTGAAAGGAC ATTAACACCT    420
GAATATATTT AGTTTCATGA AAATTTCACT TTAACACTC GAG    463
```

(2) INFORMATION FOR SEQ ID NO:934:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:934:

```
GAGCATCCTG GGGAGCACCC ATTTCTGGG AACAACTGA CCCTTTTGCG TCCTTAAAAA    60
AAGTCGGCCA AGATTCCATA GTGCTGCTGA TCTGCATTAC AGTGTTTCTC TCCTACCTAC    120
CGGAGGCAGG CCAATATGCC AGCTTTTTT TATACCTCAG ACAGATAATG AAATTTTCAC    180
CAGAAAGTGT TGCAGCGTTT ATAGCAGTCC TTGGCATTCT TTCCATTATT GCACAGACCA    240
TAGTCTTGAG TTTACTTATG AGGTCAATTG GAAATAAGAA CACACTCGAG    290
```

(2) INFORMATION FOR SEQ ID NO:935:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:935:

```
GAATTCGGCC TTCATGGCCT AGTTTGGCCC GGCAGCCTCT CAGGTTGGAC TTCTCAGGAT    60
TTGCCATTG TTTTAATCCC TGAGACCACA CAGTTGATGT TTAGAGCCTG CCCTGCATGT    120
GATCGTTCCA GTGGAGGATA CAGCATGGGG TCTGGCCTCC AGCAGGGTCC TCCCCAGGCC    180
ACCCCTGGGT GCCGGGAGGG CAGCCCCTTG GCCTGAGGCC CACTATGACC TGCCCCCTGC    240
AGCTGCACCG TGATGGTGGC TTGCCTTTGT GGCTCCCTGG GCTCTGGTGG CCTCGAG     297
```

(2) INFORMATION FOR SEQ ID NO:936:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 337 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:936:

```
GTTTAATGAA GAGTAGTCAG TCTTCTAGAT TGTCTTATA CCACCTCTCA ACCATTACTC    60
ACACTTCCAG CGCCCAGGTC CAAGTCTGAG CCTGACCTCC CCTTGGGGAC CTAGCCTGGA    120
GTCAGGACAA ATGGATCGGG CTGCAGAGGG TTAGAAGCGA GGGCACCAGC AGTTGTGGGT    180
GGGGAGCAAG GGAAGAGAGA AACTCTTCAG CGAATCCTTC TAGTACTAGT TGAGAGTTTG    240
ACTGTGAATT AATTTTATGC CATAAAAGAC CAACCCAGTT CTGTTTGACT ATGTAGCATC    300
TTGAAAAGAA AAATTATAAT AAAGCCCCAA ACTCGAG     337
```

(2) INFORMATION FOR SEQ ID NO:937:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 299 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:937:

```
GAATTCGGCC TTCATGGCCT ACATAGTTAT TCAGATTTAG GACCAGTAAG GATAGAAGTT    60
TCTCTTATTT ATGAAAAAAA ATGCTAATAA TTTTGGGGCA GTTTTTCCN TTAATTATTT    120
TTTTCATTT CAAGTTTAAT TTTATTTTAG CTGATCTGAT GTGGTTTCAA CTAACCCAAG    180
GTCTCACCAT GTTAAAANGC CGGCGGACTC TACGGCGTTT TGATAGATCCC CCCCCCCCAC    240
CCACTGTGAA GGGGTGCCAT ACTACCTTAA ATGCTAATGC TAGATATGCA ACCCTCGAG    299
```

(2) INFORMATION FOR SEQ ID NO:938:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 403 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:938:

CTCGAGTGGT	GTGTCATTAT	AGCGGACAAA	GGTCACGATC	ACAAAGGTGG	TGGCGATGAT	60
TCCCAATATT	GCAACAAACA	CAGGCACCAC	AGCCCAGGGA	GAATGCCACT	CCAATTTGAT	120
GATGGGGGATA	AGCTGGCAGC	CTGTGCGGTT	CATGTTGGGT	CTCTGATCCA	GAGGGCAAAG	180
TTCACAGGAC	AGCTCATCCA	CCTGGTAGTT	GTAACCTTCA	CAGCGTTCAC	AGTGCCAGCA	240
GCAAGGGGACC	CCTTTCACCG	TTTTCTTCCT	CTCCCCTGGC	TTACACGGCA	GGCTGCAGAC	300
AGACGCCGGG	TGAGTATGTT	CTCTATGAGC	CCACTGCATG	TCTTCCACTT	TTAGATGAAG	360
CTGATTGGTC	CAGTGGCCGA	TGACTTTGTA	CTCTGTGCTT	TTC		403

## (2) INFORMATION FOR SEQ ID NO:939:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:939:

GAATTCGGCC	TTCATGGCCT	AATTCTTTTC	TGTCCTTCAC	ATGCATGTCA	CAGTTCATCT	60
CACATTTCTG	TGTAGAGGGC	TCCATTTCTC	TGCATATGGC	ATTACCATTG	TGCCTGATGT	120
ATTCCAATTC	AGATAAACAT	AAGCTCCTTT	CTCGTGCTTT	CCCTGAGACC	CCTGGGTGGG	180
ACTTCTCTAA	TGTTCTCATA	ATATCTATGC	ATCTCTCTAT	GATTATACCA	TGTTATACTC	240
TGTGTGGCCT	TAGGCTTTGT	GAGGAGAGGT	TCAGAGTAGG	TTTTGCTCTA	GAGTGTGGTC	300
CTTACTCCTA	AGGTGACCCC	TTTCNGGTGT	CTCTGCTGGT	GTATGGCATT	AATGTGATTG	360
CTTCACTCTC	GAG					373

## (2) INFORMATION FOR SEQ ID NO:940:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:940:

GCAAGCTCTA	ACCTAAATCA	CAGAGACATG	CATGTTTCAT	GCATTAAACAC	TGATTTGCGT	60
CTGTGGCCCA	CCAGAGGGGT	GGGCTCATGT	CCCCTGACTC	CTCACATGAG	TGCCTCAGCT	120
CTAAGNCCCG	TGGAACGGGG	GGTAGGGAAG	GTTTGCGATC	TGGAGCTCAG	CAACTGGCTC	180
AGCAACGTTT	TCTCCATTTC	ATTAGCACTA	AACAAGTTTC	TGCTCTCAG	GAATTTGTCA	240
GAAAAAAGAA	TAACATCACC	TGAGACTCCA	CATACCAGAT	TATAAACTCT	TTCTCGAG	298

## (2) INFORMATION FOR SEQ ID NO:941:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:941:

GAATTCGGCC TTCATGGCCT AGGTTTCCGG ACACTTGGGA CACGCGTTTC CATCCTGGCT	60
CACTGAAGCC TCGATCTCCC AGGCTTTCTT TGACGGTGTT CCCTCAAAGA AAGAGGCCCA	120
AAGCCCTCCC CCGCAAAAAA AGCCAGAAAG GAATGGAGGT GCCTCCGCAG AAATCCAGAG	180
CATCTGCAAG ACATCCTCGA ATTCTAGACC TGCCTCGAG	219

## (2) INFORMATION FOR SEQ ID NO:942:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 572 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:942:

GAATTCGGCC TTCATGGCCT AAGCAAGATG GGTCTGAGGA TACCTGTGAG AAGTAATTCA	60
ACACATCTTT CACACATGGG CCAATTTGCT GGTCTAAGTT AAATNGGAGT GACAAGGACA	120
GCTGCTTAAA GAGTGAGTTC TAAAGCCCCA GGAATTAGGT GATGTCTTGA GCTGGGGTGA	180
AGCAAGNCAA GTGGGATGGG GAAGAGATGG CTGGNTTCTG CNGGAGTGAG TTTAAGGGAG	240
GAAGGCAGGG TTGCCCCGCA GCCCGCATGT TCCAGAAGAG CCCACGAGAG ATGTCTGTCC	300
CACAGGGCTT ATAGCACNTN GCANTCCNTC AAAGGGCGGT GTCTCATGTC CCNTCTGTTA	360
GGCTCTGGGT GGGCTTTTGT GACAGCTTTG ATAATGTTCT GGAAGAGATG CTGCTGGGCT	420
TCTGGGCTCC CGCGACCCCT TAGAGAAAGT GGTGCAGCTT CTCATTGGCT CTGTCTCTCT	480
CCGAACACGC CCCTTTTGA GCCCTCTGGA AAGGAAGACA CTGAGCAACC AAATAACATA	540
TTTTGACACT AATTTCCTGA GACCGTCTCG AG	572

## (2) INFORMATION FOR SEQ ID NO:943:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 412 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:943:

GAATTCGGCC AAAGAGGCCT AAGGAAATGT GTGTCTCTAA AACAGATTG GATTTTATTT	60
ATTTGGGACA TATAAAAGAG GAAGGAAGAG TTGATAAAGA TTCTTATTTG ACTCTTCAAA	120
GTCACGTGTC ACCAGAAATT CAGAGAATCA ACATACAAAT TACAATGGTA GTTTGTTTTT	180
TGGAAGGCCA GTGAAATACA GTCCTTAAAT TTATAATGAA ATTTACTTTC TAACAAATTA	240
AGTCTTTCTA ATGAGACCAA CATTGAGAAT TCAGCCCTTA CCTCGGGATG GTCTGAGAAA	300
ACCAAAGGC CAACTGTTTT ATTGCTTTAG ATCAGTTAGG TGATGATAAC TATGAGCATT	360
TATAATAATA TTTTAAATTG GCCCTGAGAG GCTTGAAGAC ATAGAAGTCC AG	412

## (2) INFORMATION FOR SEQ ID NO:944:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 521 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:944:

GAATTCGGCC	AAAGAGGCCT	ACAAAAA	AAAAA	NNACTTGAAC	TGAGACCTGA	60
AANNGTAAAA	CTANNGNAAC	AAAACCTTAGG	GAGAAAGCTT	CTTGACATTG	GCCTGGGCAA	120
AGATTTTTTT	GGATATGGCC	CCATAATGAC	ATAGGACAGG	CAACAAAAA	AAAAATGGAT	180
AAATGGGATT	GCATCAAAC	AAAACCTCTGT	ATAGCAAAGA	AAACAATCAA	CAGAGTGAAG	240
AGACAACCTA	CAGAATGTGA	GAAAATATTT	GCAAACCACA	CATTTCATAG	GAAATTAATA	300
TTCAAAATAT	ATAAGGAACT	TATGTAACTC	AATAGCAAGA	AAACAAATAA	CCTGATTAAA	360
AAATGAGCAA	AGGTCAGTTG	AGAGAGGAAG	AGAAAAACAA	TATGAGTAAA	AGACTTTAAT	420
AGACCTTTCT	CAAAAGAAGG	TATGTGCATG	GCTGATCTGT	GCATGAAAAG	GTACTTAACA	480
TCATTAATCA	TCAGAGAAAT	GCAAATTAAC	ATCATCTCGA	G		521

## (2) INFORMATION FOR SEQ ID NO:945:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:945:

GAATTCGGCC	AAAGAGGCCT	AGGTACACAA	AAGCAAACAG	AAAAACTCTT	AAGTTTTTCT	60
GCAATACTAA	AGAAAGTGAG	ATAAGACTTT	AAAGTTAAAG	ATCTATAGAC	ACTTAGGCA	120
AAACAGGCTC	ATAAAGCAAT	TAAAAAATCA	ACAATTAGT	AAAAACAGGC	TACATAGTAT	180
TTTGTTTTTA	CGTTTCATTT	GTCTATTGAT	CTTTAAATTA	AATTAGACAT	TTCTACTGTT	240
TTCCTGTACT	CTTATACACA	CCTGTTTTCT	CCAATGTTCT	CCTTTAGTAT	GGCTGGTAAT	300
TGTTTTGGTG	ATTGCCACCC	CCTCGAG				327

## (2) INFORMATION FOR SEQ ID NO:946:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 573 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:946:

GAATTCAAGG	GCTAGGCGAG	TTATTGCAGT	CACGTCCTTA	AGTCAGCCGG	GTCTCTTCT	60
TTCCCTCAA	GGTGCCTGTG	TTTTCTATTT	CCCCGTCCAG	TCGGTGGCCC	CACCCAGCCC	120
CAGGGTGCTC	CCTTCCCCC	TTTCGGGTTT	CTGCCTGGAG	GGTGTGGTTT	TCTCTCCAC	180
CTCGGTGCCT	GCCAGTAGAC	TGGAGTTCCC	CGCCACGCTG	TCGGTCCCAT	CTCATCACCT	240
TTCCGCTTTC	ACGCCCGTAG	CTAGTCTTGG	GACTGGCCCT	GTTATAGCCC	CAACTTATGC	300
GCTCTCTAAC	CTTTCCTGGC	TTACCCGAG	TCACAGTTCA	GTTCTACTTC	TTTTCAATTC	360
TGTAGGGCAT	TGGTCTCAAT	TGGGACTCAG	TTTTCCTCCA	CACCCGCCGT	TCCTGTAGTC	420
TGGTTATATC	ACAGTTCATT	ATTTAATGTA	GGTTTTTGAG	CGCTTTGTAA	ACGGCAAAGC	480
TCTCTCTGTT	AATAATACAT	ACTCAAAATG	TTATTCTTTC	ATTGGTGCAT	TACAACTCAG	540
TTGTTTGCTT	CTGAATCACT	TTCCCGACTC	GAG			573

## (2) INFORMATION FOR SEQ ID NO:947:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:947:

GTGAAGTCA TTTATTATTT TATAAATTGA GAACAACCAC ACCACCAAAT GTCACACCTT	60
CTTATAAAGT GTGAACAAGG AAGGTCATGT TTTGTGGGT ATTTGTCAG ACTTAGAGGT	120
TTCATTTTCA GGCATAGTCA AAGGCATCAT CCTCCCACT ACCCACTTGA TTATGTATTT	180
CAGATCCCTC CGTGGGGGCC TTCTTCTGAC AGAGAATTCT TTGAGGTACG CAGTAGTGCT	240
TTTGTGAGCA CAGACTGCTA ATCTACATCT TGCTGCGTTC TGTTTGCTGA GGTGGGCTT	300
ATTCATTTAA CACGTACCAA CCATTATCAC TCGAG	335

(2) INFORMATION FOR SEQ ID NO:948:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:948:

GAATTCGGCC AAAGAGGCCT ACGGCCAAAG AGGCCTAGTC GGAGGAGGAA ACATATGTAG	60
GGAACAGCCT GGGTCTTG TG AATCCGTTT CCAGCTATGA TGCCTATTT CTCAGCAGAA	120
TGAGTGTAGC ATGTCTCCCA GGTCTGTTT TTATTTGTTT GAGAGGTGAT TTCAAGCAGA	180
ATCTCACAGC TTAAGTGTGG AAATGCTATC AGTTGTAAAG ATAGGGAAAA TCTCTCTCC	240
ACTACGGTGG TAGGAAATGA ATACATATCA TTTCCAGCT TCCAGGATGT CCTGTCTCT	300
TAAGTGTGCG TCCCAAGGA CCTACAGATC ACAGGGCAAC AGGGGCTGTG AAAGAGTAGC	360
CCGGGGCTCG AG	372

(2) INFORMATION FOR SEQ ID NO:949:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:949:

CTAGCATTAC GAATCTCTTA GGATTTTAA GATTGTATTT GATAATACTT ATATTTTACA	60
GGGCACACTT TTGGCACACC TCAGAGCACA CTGCTGCTAT TTTGGGTCAT ATCACTGTAA	120
AATACATAAT AAGTACTACT TAACTGTGAC ATGAAGAATT GGAATCCCAG AGGGCAACAT	180
TTGATTTCGAC TAAGATCAGG CATAAGATAG AATTTTGTG ATTTTTCCTT GCAGTTTAT	240
TGACTTAGTT TATGAGCTTG GATAAAATAA TTTTGTGATG AATCATGTCA ATAAAAGGAA	300
AAATAATGTA ACTACCTCAT AAGTCTGATA AAAGGAAGTT GCTAGTGTTT TATAGAATTT	360
CTGAAGGTGG TTAAATCAAG TATGATTTCA AAATATCAAC TAGTTCCACT TTTGTGATTG	420
CAGGATGCTT CTTATACTAA AGTTCTCGAG	450

(2) INFORMATION FOR SEQ ID NO:950:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:950:

GAATTCGGCC AAAGAGGCCT ACGTAGGCAA AGGTTGACCC AATCAAAGAT AAAAGAAAAT	60
CGACAGCAAA TCGTTCGTGC TCGAAAATAT TATGATGATT ATAGAGTTCA GTTGTGTGCA	120
AAAATGATGA GAATGAGGAC CCGGGAAGAA ATGATATTTA AGAACTGTT TGAAGAAGGT	180
TTAAACATTC AAAAGCAAAG ATTACGAGAC CTAAGAACT ATGCCAAAGA AAAGCGAGAT	240
GAACAAAGGA GACGCCACCA GGATGAACTG GACTCCATGG AGAACTACTA TAAGGACCAG	300
TTTTCATTGC TGGCAGAAGC CATATCACAG GAACAACTCG AG	342

(2) INFORMATION FOR SEQ ID NO:951:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:951:

GAATTCGGCC AAAGAGGCCT ACCCTGTTTT AATCACATGA CTACCTGTCC CAGTACACGA	60
AAGGGCGCTG GTTGGCATTG TTCTTAATGT ATTTAGTAAA GATTATAAGA CATCCTTTAA	120
GAGTTTAAAT GTCTCTGAAA CAGGCATACA GGCTCTAGTC AAGAATGAAT TAGAGTGAAG	180
GAAAGCTGTG TGACACCTGG CATTCTCTC TGTTTCATGGA GCTTCTTTGA GGCTTGAAGT	240
TTGATTTTAC TATCTAGACC TCTCTGGCTA ATACCTATTC TTCAACCACC TCGGTTACTC	300
TGACATAGGA ATTACTTCT TTTCTTGAG TGGAAAACAC TTTAGAAAAT AATAACAAAC	360
ATTATTATAA ACTAATATAT GTGAGAGTAC TTAGTTGAAA CAAAAAGGAA TTTTAGTAGA	420
CAGTATTATA TTATCTTTGA AAATCAAGGA GAAGTTTATG CAACTGAAAA TGTTTACACA	480
CTGTGCTACT CGAG	494

(2) INFORMATION FOR SEQ ID NO:952:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 522 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:952:

CAAAGAGGCC TAGGGAGTGT CGCTCTGTCA CCCAGGCCGA GATTGCACCC CTGCACTCCA	60
GGCTGGGCAA CAGTACGAGA CTCTGTCCAA AAAAAATAAA AAAGAACAGC CTTTTTAGGC	120
CACAGTGACC TGCGCAATGT TTATATGCTT NGACCTACTA ACTTTCTCCT AACTAAATAT	180
TTGATTTTATG GAGAGTGTGTT AAATAAATTA CAGTATGTCT ATATGATGAA ATGTTATTTT	240
GCCATTAAAA TTTTGTTTAC AAAGATAATT TTTATTGACA TAAAAATNAC TTAAATGTAA	300
TTTATGTTGA AAAAGCTGAA TACAAGTCTT TATATAGAGT AATATTTGAG CTGTGTTCAA	360
AAATACATAG GAAAAGACTG ATAAATGAA ATATGGCNAA ATGTTAATAG TTTCCCTGG	420
AATAGGATAA TAGGCAATTT TAAAACAGAC TCCTTTAAAA AAACAAACAA ACNAAAAAAA	480
CATAGACTTC TTTATATCTT TTGAGCTCCC CCCNACTCG AG	522

(2) INFORMATION FOR SEQ ID NO:953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 483 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:953:

GAATTCGGCC	AAAGAGGCCT	AGTGTGTTAT	ACAGTTGTTG	CCACTGCTGT	TTTCCAAATG	60
TCCGATGTGT	GCTATGACTG	ACAACTACTT	TTCTCTGGGT	CTGATCAATT	TTGCAGTAGA	120
CCATTTTAGT	TCTTACGGCG	TCAATAACAA	ATGCTTCAAC	ATCATCAGCT	CCAATCTGAA	180
GTTCTTGCTG	CATTGTGTCA	AAAGAAATTT	CCTTATTTTC	TACTGCCATT	CCCATAAAAG	240
TAAGTAGTCT	CATTTTGGCC	ATATTCTGTT	CATGTAACAG	GCCAAGTGAA	TCAATGAAGT	300
CTTTATTATT	CTGATAAAAC	TTGACATATG	ATGCCAATTT	AGCACTCACA	AAAATGGTTA	360
AAAGATCATG	AATAAGCTCG	CCTTCCAAAA	ACTTGACTGG	TTTTAAAGTA	AGAAGGTGGT	420
CAAAAAGAAA	TGCATTGGA	TCTTTCAATG	CTCGTACAAT	ACACCTGTGG	GCATCAACTC	480
GAG						483

(2) INFORMATION FOR SEQ ID NO:954:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 372 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:

GAATTCGGCC	TTCATGGCCT	AGGTGCCCTC	TGTGAAGCCA	GTGTTCTCTG	CTCCCCGGGT	60
CAGAGGTCAC	AGGTCAAGTT	CAGTCAGTCC	GAAGAATCAT	GGGCGGGTGC	TCGCTGTCCT	120
CATCCAGGCG	CAGGGCGCTG	GCCTCGTCCT	CCAGGCAGGC	GCCACCCACA	GCACCCAGGT	180
CGTCTGTGTA	GGCTGCAAAG	AGACGACGAA	GTCAACCTTC	AAAGGCTGGG	GACACACCAC	240
AGACCCCATG	ACACACACTG	AGGACTGTGT	TTTGGAAACA	CTGGTGTATA	TTTATAAACT	300
GAAGCCTGTA	CTAAGACGTT	CTGAATTCTG	ATTGCTTTCT	AATGAACTCT	TTGCAGCCTT	360
AGGCAGCTCG	AG					372

(2) INFORMATION FOR SEQ ID NO:955:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 436 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:955:

GAATTCGGCC	TTCATGGCCT	ACTATTACCA	TTATATATCA	CCCATCTGCA	ACAAGGTACT	60
GTACAGACAA	GTAAGAAGTA	TGTTATCTAG	TTCCCTTTCC	CCCAGAAGGT	TGAGGCTCAG	120
GTATAGGGGT	AATTCTCCTG	TGCAGTCTTT	ATTTATGCTG	ACTCAGTGAC	TTCAACAGGC	180
TTAATCATGT	GGTCAGGTTT	GTTGCCAGCT	GCATAATGCT	CCCACATCTG	TAGATAGAGC	240
CGCTCTAGTT	CCATTGTGTA	TTGTTTGGTG	TTGAACAGAG	GGCTAGATAT	TCTTTGCTTC	300
CAGACTTTGC	CACGAACCTT	CTTCAGGTAT	TCTAGATCAG	TTCCCAGCTT	CACAGCTATG	360
TCTTCATATT	CTTGTCTGTT	TTTAGCAATA	AGCTCAAGAC	AACCTAAGCA	AGTGAGCTGG	420
GATGCTGCAA	CTCGAG					436

## (2) INFORMATION FOR SEQ ID NO:956:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:956:

```

GAATTCGGCC TTCATGGCCT AAGGAGATGG GAGAATGTCC GGGGAGGGGC TGGCAGGAGG      60
GGCCAGCCAA ACTGCACGGA CTTGCTGGT TAGTGAAGGA TTTAAGTCC TCTAGTGGAA      120
TTAAGTGATT AGATTTTTC CTTACAAAGG AAATCTCTCT ATGGAGAACA AACTACCATA      180
TGAAGCTAGC GGCCTAAACC AGGAGAATGT GGGGAAAGAA GAGAGGTGAG GATAACTGGA      240
GGGGTATTAT GTAACAACAG AAAGCATCAC AGTTCAATGA ACAGGGCAAG GTGGGCAAAT      300
GAAGAGGGCA GAGGAGGACT GGGCCCTCGA G                                     331

```

## (2) INFORMATION FOR SEQ ID NO:957:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:957:

```

GAATTCGGCC TTCATGGCCT AAGACTGTGA GTTCTGGGGC CAAGAAAAGT TTTGAATTGC      60
TCTCAGAGAG CGATGGGGCC TTGATGGAGC ACCCAGAAGT ATCTCAAGTG AGGAGGAAAA      120
CTGTGGAGTT TAACCTGACG GATATGCCAG AGATCCCCGA AAATCACCTC AAAGAACCTT      180
TGGAACAATC ACCAACCAAC ATACACACTA CACTCAAAGA TCACATGGAT CCTTATTGGG      240
CCTTGGAAAA CAGGTCTGTC CTCCACCTGA ACCAGGGGCA CTGCATTGCC CTGTGCCCCA      300
CCCCAGCTTC CCTTGCTCTG AGCCTACCCT TCCTCCACAA TTTCTAGGG TTCCATCACT      360
GCCAGGCAC ACTGGACCTA CGCCAGCAC TGGCTTGGGG TATATACTTG GCCACCTTCT      420
CGAG

```

## (2) INFORMATION FOR SEQ ID NO:958:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 597 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:958:

```

GAATTCGGCC TTCATGGCCT AGATATGGCC AGGATGCTAT AGCATTGTCA GTGAGGAGAC      60
ATCAGAGCTT TCCCAGATCG GGAGGAAAAA TATGGAATGT GTTTTACCGC TGAAGTGAACA      120
CAACCAATG AACTGTCCTG ACAGTAGTTT GCAAACCAGC AGCTAGCAGT TTGTCCAGCC      180
TCTAACATTG TCCAGCACTT TCCAGAGCAA ACTCACTGTT TACAAGAACT CTTGGCCTTA      240
CGAAGTTTAT AACCTCAAGC TTTGTTTATT TAAATATTC CTGCAAAAGA AAAGTACCCG      300
GCCCATGACC ATTCGTGACA GGCCCTTTGA ACGGACGATT ACCATGCATA AGGATAGCAC      360
TGGACATGTT GGTTTTATCT TTAAAAATGG AAAAATAACA TCCATAGTGA AAGATAGCTC      420

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TGCAGCCAGA AATGGTCTTC TCACGGAACA TAACATCTGT GAAATCAATG GACAGAATGT	480
CATTGGATTG AAGGACTCTC AAATTGCAGA CATACTGTCA ACATCTGGGA CTGTAGTTAC	540
TATTACAATC ATGCCTGCTT TTATCTTTGA ACATATTATT AAGCGGTGCG ACTCGAG	597

## (2) INFORMATION FOR SEQ ID NO:959:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:959:

GAATTCGGCC TTCATGGCCT AGTGTCTTCT TGTCAACTTC ATTCTCTTCT CTTGTTTTCT	60
ACGTCCTGAGA TCTTCTGAA CACATTTTGT TAGAGGCTGC TGTCTCCTGC TGTCTGGAGA	120
ATGATCTTTA GAGGGAACGG AAGCTTTCTT CCTGTGCGTG TGTGTCTTCC TGTGTCCTAG	180
CACTTGGGGG TGGAGAGTCT CGGGGCGGGG ACACCAGTGT CATCAGCGCC TCTGCTGTCC	240
TGCTTCTCTT TTGCATGTTT GGAAAGCCTC AAGCGGGAGG CGGACTCGAG	290

## (2) INFORMATION FOR SEQ ID NO:960:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:960:

GAATTCGGCC TTCATGGCCT AGTGAGTGAG TAAGACAGGT TGCTCTTTGG AAAACAAGGA	60
AAATCCCTTT ATTAGAACAA GGCATGAAAT TCTGCCACTA GGTGGCGATG CCCTATAACT	120
TTACAACTTA GTGTACATCA CACGAGCACT ATGGAAGATT TCTCCATTCT GCGCCCCACC	180
AACTCCCTCC CCTCCTTCAT TTTTCAGGAT GACAACACCT TAGAGGTTTA TGGCCATCAG	240
GAGAATTTAC TACTAAGCTA TATACTGATG TAATGAAATC TAATATATGT TGTGCTCGAG	300

## (2) INFORMATION FOR SEQ ID NO:961:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 503 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:961:

GAATTCGGCC TTCATGGCCT ATTTTCCCTT CAGGATTGTG TGTGGGGTG GGGGCATACT	60
GGGGATGACA GAGGGAGAAA GAAAGATTTT TATTTTTCCT TCTAATAAAT GTTCATTGAG	120
AAAGTTATAG AATATGGAGA AAATGAAATT TATAACTCTC CTGCGCAGAA ATACTGTTAG	180
CTGTGAGTTT CTTTCTATA TATGCTTATA TAGTTGAGAT TATGCATGTA TACAGTTCTG	240
CATCTTAGCT TTAATAATAA TGTACATCT TGATAATTTT CCAGTCATTA AAATTATTTG	300
AAGATATCAT TGATGTATCA CCTTATTTTA TATTCTATTT GAATAATACA TCCAAGGTCA	360
CCAAAAGATG ACAGTGAAAT GTATTGTTTG TAATCTACAT TAGCATCAGT AAATATGGAC	420

CATTAAATT GTGTTAAGTC AACCTCTCTG ATCTTATTTT ATTAAAGTTT AGGATAGGCA 480  
CTACATTGA TGGGACTCTC GAG 503

## (2) INFORMATION FOR SEQ ID NO:962:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 394 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:962:

GAATTCGGCC TTCATGGCCT AAGCAGCTGC TGCCTGCCAG AGAGGCGCCT TCAGAGACCC 60  
 AGCGCTTACA CAATACCCAC CATGTCCCAG GCTGGTGCTC AGGAAGCCCC TATCAAGAAG 120  
 AAGCGCCCC CTGTGAAGGA GGAGGACCTG AAGGGGGCCC GAGGAAACCT GACCAAGAAC 180  
 CAGGAAATCA AGTCCAAGAC CTACCAGGTC ATGCGAGAGT GTGAGCAAGC TGGCTCGGCC 240  
 GCCCCGTCGG TGTTCAGCCG CACCCGCACA GGTACCGAGA CTGTCTTTGA GAAGCCCCAA 300  
 GCCGGACCCA CCAAGAGTGT CTTCGGCTGA GAAGTGTGCG CCACTCCCCT TGCTGCCCCG 360  
 ATGCTCGGAA ACAGGAGCCT TACCCAGGCT CGAG 394

## (2) INFORMATION FOR SEQ ID NO:963:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 497 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:963:

GAATTCGGCC TTCATGGCCT ACCCTTCATG GCCTAGGAAA CTCACAAAAT GAAATATCCT 60  
 TCTCAACGTC ACTAGAGAGT GGCAGAGTTT AGAGACAAAG CCATCTGATT TTGGAGCCTG 120  
 TGCTCAGCTT TTAGCAGACA CACTGATTTC CAAGAATTGC TAGGATGTTT CTCAGTGCAG 180  
 TTGACCACAG GACTCTCTGG AAAGCCTTCA GGAAGTGAAG TCCTCCAGAC AGTTTGGGAA 240  
 ACACATGCATG TGTCTATTAT GAAGCCATCA GCTGAGCTCA TCCCCCGTGC ACTCCACAAC 300  
 GCTGAGGCTC TGCACATGGC TCACCAAGTGC CAGGTGCTGC CAGTCAGCAG TGCCGTGCTG 360  
 TTTCCACAGC AGCCTGCATA CGTCTATATT GCCCAGCCTG TTTCACCTGG CGGGGTCACA 420  
 CAAACCACCC CCTGGTATTG TTAGCACGTC CACATAATGG CATCTCCACA GCTGTGTCAT 480  
 CCAAAAGAAA CCTCGAG 497

## (2) INFORMATION FOR SEQ ID NO:964:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 395 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:964:

GAATTCGGCC TACATCTTTT GATGACTCTG ATACCTTCAT TCATTTTCA AAGGAATTTA 60  
 CTGATCATGA GGTGGGAAA TCTGTATTTT TCTTGCTTAT TATGTATTAA TAATCATAAA 120

TGTCTAGATT CACCAGAAGT CACCAGAAGG TCTGTCTCAG TGAAGAAAAC TTATAAAGCC	180
ACTTTGTTGC ATTTTGTGTT TCAGTGTTAC AGTTTGAGAT CTGTATATTT GTACACAGCT	240
ATGTGTTTTT CATTGAAATA ATGTACAAAG ACTGATCTTG ATGCTGTGTA TTTTATGAG	300
TTGTCTTAGG CATTCCTGAG CTCAGCTTCA GTTGGATGGT GGGTCAGCAC CCTGCCGTTT	360
TGAACATACT AGACTTCAGT TTAAAACTGC TCGAG	395

## (2) INFORMATION FOR SEQ ID NO:965:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 471 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:965:

GAATTCGGCC TTCATGGCCT ATAGTAAATG CCCACTAGGC ACCCTGGAGT CATTGTGTA	60
GAGTGGCATC TCTATACAAC TGTTGACTA ACTGTCCGAG ACACCCCTAAT CACCCAGCC	120
ACAAACAAAT AGAACATTGT ATGTGTGCTG AATCCACAA AGGCCAGACA TGATGCCATG	180
AGACCAAGAA GGAAAGAAA TAATGTGGAA AGGGTTTGGG GTGGAAAGGT GGGGAACCTG	240
GAGGCGGGCC ACATGGGGCC CCAGAAGCCA TGTGAGGGT TTTGTCTTCA CCAAAGGATC	300
AGTGGGAGAT TAGTGTAGAA CATTAAACAG AGGTGGGGTA TGTGTCATAT TTCCATTAA	360
AAATTCATCC TGGCCACAGT GTAAAGAATA GATTAGGGAG GAAGCCAATC AGGAAGCAAT	420
TGGAGTAGGC AATGCAAAG GCAAAGTGAA CTTGGACTAG TGGTTCTCGA G	471

## (2) INFORMATION FOR SEQ ID NO:966:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 611 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:966:

GAATTCGGCC TTCATGGCCT AAGCCAGCTC AGNIGCNTCA GAGATTTTGT GTGTCCTGC	60
ATACACAAC TAATTTCTCT AGGATTCAGT CTCCTCGTNT TATTTTAAA ATNATTTAT	120
TTGTAAATAC CTCATCGTGG ACTCCAAAAG CATGTCTCCT CGTTTAAAA ACTGGCATA	180
TACCTACCAC AAAGGTGGAT GTGAGAATTA AATAGAGCTT TATACAGAAT TCCCTCAGGC	240
ATTTTAAAGT TTATGTAATA GGGATGTATC TTACAGTTGA TGGGTACATT TAGTGTAGTC	300
CCCCTACCTC CCAAGCTAAT AATGGTGCGT CGTACAATTG ATGGTACCAA ATTGAGGTGA	360
TAATAACATA GAAAGAGTTT AATGCAACGT GAAGTACAAA ATGCATTCAA TAAGTAGCTG	420
CTATCATTTT TTTAAAAATT AAATATGGCT GCTTGTTAAG GCCATATCCC AGGAGGAAA	480
TGTGGTCTCT GCTGGGAGGT TGGTCTACAT ACAGGAAGCC AGATGTGTGA GATGGCTCTA	540
GATAGGCAGA AGGGGAGAGC TCGTGCCCTC TAGGAACCTA TTAATAGATA TCAAGGGAGG	600
GATAGCTCGA G	611

## (2) INFORMATION FOR SEQ ID NO:967:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 343 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:

GAATTCGGCC	TTCATGGCCT	AATTAAAGTT	TTTCTAGCAG	ATCGCTCAGG	TTGCTCTTAA	60
CTGGAATGTA	GTGTTTCCAG	GGCTGCAGCT	CATTGTAAAA	ATGTTTCATAG	TAGATGGAAT	120
CCTGCTTCAG	CACAACACTG	TCACCAACTA	GCAAATATGG	CAGGCGATAA	GCTGCTACAG	180
TGCCATCGAT	ATTATTTGA	TACTTATGCT	TGAAGAAATC	AAAAAATGAA	ATATGTTTCA	240
CAATGGGACC	ATACAGGTTT	TCATCGTGTT	TAAAGAAGAA	AAAGTTGGTG	AAAGCAGCGT	300
CTATGAGTTC	TGGGTGTTTT	CTACTGAGTT	TAACCAGCTC	GAG		343

## (2) INFORMATION FOR SEQ ID NO:968:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 593 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:968:

GAATTCGGCC	TTCATCGCCT	AGCCAGGANC	TTTCTCGGAC	GCCTTGCCCA	GCGGGCCGCC	60
CGACCCCTG	CACCATGGAC	CCCCTCGCC	CCCTGGGGCT	GTCGATTCTG	CTGCTTTCTT	120
GACGGAGGCT	GCACTGGGCG	ATGCTGCTCA	GGAGCCAACA	GGAAATAACG	CGGAGATCTG	180
TCTCCTGCCC	CTAGACTACG	GACCTGCGG	GGCCCTACTT	CTCCGTTACT	ACTACGACAG	240
GTACACGCAG	AGCTGCCGCC	AGTTCCTGTA	CGGGGGCTGC	GAGGGCAACG	CCAACAATTT	300
CTACACCTGG	GAGGCTTGCG	ACGATGCTTG	CTGGAGGATA	GAAAAAGTTC	CCAAAGTTTG	360
CCGGCTGCAA	GTGAGTGTGG	ACGACCAAGT	TGAGGGGTCC	ACAGAAAAGT	ATTTCTTTAA	420
TCTAAGTTCC	ATGACATGTG	AAAAATTCTT	TTCCGGTGGG	TGTCACCGGA	ACCGGATTGA	480
GAACAGGTTT	CCAGATGAAG	CTACTTGAT	GGGCTTCTGC	GCACCAAAGA	AAATTCCATC	540
ATTTTGCTAC	AGTCCAAAAG	ATGAGGGACT	GTGCTCTGCC	AATCCGACTC	GAG	593

## (2) INFORMATION FOR SEQ ID NO:969:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:969:

GAATTCGGCC	TTCAAGGCCT	AGTTTGTTTG	TTTTCGTTTG	GTAAAGCTT	ATTGCCATGC	60
TGGTGCGGCT	ATGGAGACTG	TCTGGAAGGC	TTGGAATGGT	TTATTGCTTA	TGGTAAATTT	120
TGCCTGATTT	CTTACAGGCA	GCGTTTGGA	ACCTTTTATT	ATATAGTTGT	TTACATACTT	180
ATAAGTCTAT	CATTAAAGA	CATGTACTGA	AACAAATGTA	TTTGTTTCAT	AAGCATCTTC	240
CTGTAATCTA	TTATAAAATT	GAAATTAAAT	ATAGAGAATG	TTTAAACAAT	TTTTTAACTC	300
AAAATTTGTC	AATCATTTTT	AATAGTTCTT	TTTTTATAAA	AAGAAAAAGG	AATTTAAGGA	360
CAGGCAGTAG	TCTCTTTTAA	AATTTATTCA	CAAAACCAT	TAACCTCGAG		409

## (2) INFORMATION FOR SEQ ID NO:970:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:970:

GAATTCGGCC	TTCATGGCCT	AAGATTATAT	AAGATTATGC	CAATAAACT	CATGCCTGAG	60
GAAGTGGTTG	CTCCCTTTCT	ATGGGTCAGT	ATTGGTGCAA	GAAGTGGAAA	CCAGCCCTTG	120
GAGAATAGTT	ATACATTGGC	CATGATTTTC	CACAGCCCTG	GAAATGCACA	ATTCTATCCT	180
CCTACCAGGA	TGATTGTTAA	TTTTAGCTA	ACATTTGATT	ATAAAAGGCC	GTAAGTATGA	240
GTATCTCTGA	GATAATTTGT	GTATTGAAA	GAGGTGTGTA	ATAGCACTTT	TTTAAAAAAA	300
CCTAGGTGTG	AAGGAATTAC	AAGTCCAGAA	GGCTCAAAAT	CTATAGTGGA	AGGAATCATA	360
GAGGAAGCTC	GAG					373

(2) INFORMATION FOR SEQ ID NO:971:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 656 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:971:

GTGGAAGTCC	TGACCTCAGG	TGATCCGCCC	ACCTTGGCCT	CCCAAAGTGC	TGGGATTACA	60
GGCGTGAGCC	ACCACGCCCC	GCCTATCTCT	TGTTTTTAAA	TCAGTCTAGG	GTGCCAAAGC	120
ATCAGGGTTC	CCGGCCTGCA	AGAAAGGGAG	ATTCTGTTC	ATGTTAAAGT	GTCATATTTA	180
TGAAAGTCC	CTTTTGGA	TCTTTGAGG	TGTCTGTACT	ATAGGACTGG	GGAAATGCAA	240
GTGAGTCTAA	GAAGAAACCC	AGATGTGTCC	TACCTTGGCT	GGCAGTAGTG	AGAAGGGAGG	300
AAGTTCTTCC	TTGGACACTA	GTACTATTGG	AAAGTTCCTT	ATGTCTGGTT	CACTGATGAA	360
GCTTGAGGAT	AGAATTGGTG	AGGAGGGAGG	GGAGAACAGG	TCACAGCTGG	AGGGGAGCCT	420
GGGCCCTATA	GGGTGTGAGG	CAGAGCAGAG	TGGCAGATAG	GACATGTGGA	CGGTGGGGAA	480
AATATTCCTC	ATGGGACAGA	AGATACCTGG	CACATGTACC	CACAACCTGT	ACACAGATGA	540
TCTGTACTGG	ACACACGTGG	AGATATGGCC	ATGCCACGCA	TGTGCAAACA	GAGGTGTACA	600
CACAGGAGTG	CAGTGATACA	GGACACAGAT	AAACAGAATG	TACACAGCTT	CTCGAG	656

(2) INFORMATION FOR SEQ ID NO:972:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:972:

GCAGGAATAG	AGTTGGAGCG	GTGCCAGCAG	CAGGCGAACG	AGGTGACGGA	AATTATGCGT	60
AACAACCTTC	GCAAGGTCCT	GGAGCGTGTT	GTGAAGCTGG	CCGAAGTCA	GCAGCGTTCA	120
GACCAACTCC	TGGATATGAG	CTCAACCTTC	AACAAGACTA	CACAGAACCT	GGCCAGAAAG	180
AAGTGCTGGG	AGAACATCCG	TTACCGGATC	TGCGTGGGGC	TGGTGGTGGT	TGGTGTCTTG	240
CTCATCATCC	TGATTGTGCT	GCTGGTCTGC	TTTCTCCCTC	AGAGCAGTGA	CAGCAGTAGT	300
GCCCCACGGG	TCCTCGAG					318

(2) INFORMATION FOR SEQ ID NO:973:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs



(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:973:

GGAAAAATAC AAAAATTAGC CGGGTGTGGC GACGTGCGCC TG TAGTCCCG GCTATTCAGG	60
AGACTGAGGC AGGAGAATCG TTTGAACCTG GGAGGTGGTG GTTGCACTGA GCCAAGATTG	120
CGCCATTGCA CTCCAGCCTG GGCAACAGGG TGAGANTCTG TCTCCAAAAA AAAAAAAAAA	180
AAAAGCTGGA TTACAGGCGT GAACCAACGC ACCCAGCCAA TTCATAGGTG TTTTAAGTGT	240
GACACTTGGA TGGTTTAAGT CTGATAGAAC TTTTACATTT ATTATACATT TAAATATATA	300
CCAGGGGCTC GAG	313

(2) INFORMATION FOR SEQ ID NO:974:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 372 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:974:

GAATTCGGCC TTCATGGCNT ATTCTTCGCA GATTATGAAG ACTACATTAA ATGCCAGGAG	60
AAAGTCAGCG CCTTGTAACA GAACCAAGA GAGTGGACGC GGATGGTGAT CCGGAACATA	120
GCCACCTCTG GCAAGTTCTC CAGTGACCGC ACCATTGCCC AGTATGCCCG GGAGATNTGG	180
GGTGTGGAGC CTTCCCGCCA GCGCCTGCCA GCCCCGATG AGGCCATCTG AGCCTCCAGA	240
CCAGACCCCA AACCAGCCCT TGAGTCTGTC ACACTCTCTT GGGCCAGCCC CAGCACCTCA	300
TGCAGAGGGT GGGGTACTGG AGTTAGATCT CTAAGCCCCT CCTGGAACCC TCATTTTCCC	360
CACGTGCTCG AG	372

(2) INFORMATION FOR SEQ ID NO:975:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 449 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:

GAATTCGGCC TTCATGGCCT AAAGGATTG ATTCAGAGTG ACATAGCTGC TCTCCATCAC	60
TTTACTCCA AGCATCTCGA ATCCCTGAC AATGATAGCC TCGTAGTACT CTTTGACAG	120
GTAACTGTA ATGGCTTCAC AATTGAAGAT GAAGAACTTT CTCATTTGGG ATCAGCGATA	180
TTTCTGATG TTGCATTGAT GAATCATAGC TGTGCCCCA ATGTCATTGT GACCTACAAA	240
GGGACCCTGG CAGAAGTCAG AGCTGTACAG GAAATCAAGC CGGGAGAGGA GGTTTTTACC	300
AGCTATATTG ATCTCTGTA CCCAACGGAA GATAGAAATG ACCGGTTAAG AGATTCTTAT	360
TTCTTTACCT GTGAGTGCCA GGAGTGTACC ACCAAGGACA AGGATAAGGC CAAGGTGGAA	420
ATCCGGAAGC TCAGCGATCC CCGCTCGAG	449

(2) INFORMATION FOR SEQ ID NO:976:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:976:

GAATTCGGCC TTCATGGCCT ATAGTGTCTT CCTNGGCGCT GCGACAGCCA ATGTAATGGC	60
CTTTCTGTTT CTCATAAGCA GTTTTGTACA GATAATCACT GGCAATATCC CTGGAAGCCT	120
TGGCATGCTG GATCCCAATG GCATCAAACT CGAG	154

(2) INFORMATION FOR SEQ ID NO:977:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 485 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:977:

GAATTCGGCC TTCATGGCCT AGAAGAAATC TCTCTTCCAT TCCTGAAAAC AATTTTAGTC	60
CATTCCTCTT CATTAACTA AGTATAAAAC TACTAATATC TTTCAAGTGC CAGAAGTCC	120
TCAAGAAGCC GCAGAAAAAG AAATTCCCGT GGCTCCACCC AAAAAACCAG AAGCTCCGAT	180
TGTCACAGGT ACACCTTAGC CCTGACTTCA TTCTGCAGAA GAGATATCTC CTCTCCTACT	240
GTAAACAATT TTAGCCCAT TCTCTTCATT AACTTAAGTC TAAACTACT AATATCTTTC	300
AAGTGCCTGA AGCTCAAGAA GTTGTCCAG AAAAGAAAGT TCCTAAGGCT CCTCCCACAA	360
AACCAGAAGC CCCACCTGCC ACAGGTATTT TTTACCCCTG TCCTTTTCT GCAGAAGAAA	420
TATCTCTTCT GATCTTAGAA ATATTTTACT CCATTGTCT CATTAACTA AGTGAAAAAC	480
TCGAG	485

(2) INFORMATION FOR SEQ ID NO:978:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 322 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:978:

GAATTCGGCC TTCATGGCCT AGAAGATTCT CTACGTGGGC GACGAGGCTC AGAGCAAGAG	60
AGGTATCCTG ACCCTGAAGT ACCCTATCGA GCACGGCATC ATCACCACCT GGGATGACAT	120
GGAGAAGATC TGGCACCACA CTTCTACAA CGAGCTTCGC GTGGCTCCCG AGGAGCACCC	180
CACCTGCTC ACCGAGGCC CCCTCAATCC CAAGGCCAAC CGCGAGAAGA TGACCCACCA	240
ATCACCTAGG CCATGAAGGC CGAATTCGGC CTTATGGCC TAGCGCGACC GCGAGGGAG	300
GAAGAAGCGC GAAAAGCTCG AG	322

(2) INFORMATION FOR SEQ ID NO:979:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 499 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:979:

GAATTCGGCC	TTCATGGCCT	AGCCGCATCT	TCTTTTGCCT	CGCCAGCCGA	GCCACATCGC	60
TCAGACACCA	TGGGGAAGGT	GAAGGTCGGA	GTCAACGGAT	TTGGTCGTAT	TGGGCGCCTG	120
GTCACCAGGG	CTGCTTTTAA	CTCTGGTAAA	GTGGATATTG	TTGCCATCAA	TGACCCCTTC	180
ATTGACCTCA	ACTACATGGT	TTACATGTTT	CAATATGATT	CCACCCATGG	CAAATTCCAT	240
GGCACCCTCA	AGGCTGAGAA	CGGGAAGCTT	GTCATCAATG	GAAATCCCAT	CACCATCTTC	300
CAGGAGCGAG	ATCCCTCCAA	AATCAAGTGG	GGCGATGCTG	GCGCTGAGTA	CGTCGTGGAG	360
TCCACTGGCG	TCTTACCAC	CATGGAGAAG	GCTGGGGCTC	ATTTGCAGGG	GGGAGCCAAA	420
AGGGTCATCA	TCTCTGCCCC	CTCTGCTGAT	GCCCCCATGT	TCGTTCATGGG	TGTGAACCAT	480
GAGAAGTATG	ACAACAGCG					499

(2) INFORMATION FOR SEQ ID NO:980:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 333 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:980:

GAATTCGGCC	TTCATGGCCT	ATAGGCCATG	AAGGCCGGCC	TTCATGGCCT	ACTTGCCTCC	60
TTTGCTGTTT	TAGGAACAAT	TCCATGGGAG	GGTCTATTCT	GGATTAGGAA	TTCTTTCTTG	120
AGTAATTTTT	ATTACCTTTT	AATTGTGTCC	ATTCTTTTGG	GAAATAGCAA	GCTCTCCCTG	180
CTCCCGCCAA	TCTCTCCTCT	TACTTTTGG	ACCAGTTCTT	GTACCTCTTA	GCTCACCTCA	240
TTCACTGAAA	ATTGACAAAA	GAGACGTGAG	TTTCTGTACC	TGTGAGACAG	CTTATTTTGG	300
TGTCTTTTATG	GTTTCTAAGC	CAAAAATCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:981:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 91 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:981:

GAATTCGGCC	TTCATGGCCT	ATCGAGTAAT	CCTGATGTTT	TCACTTTCTC	TAATCACTTC	60
TTCTTATTTT	TGTCCAGTGG	CTTTTCTCGA	G			91

(2) INFORMATION FOR SEQ ID NO:982:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 351 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:982:

```

GGCCGCTCGT GGCTGCGTTC CCGCTGATGC TTGTGCCTGC AGAGCCTCTC CAGGCTGCTG      60
GTGGGGGAGC ACTCCCTTCC CCGAGGTCTG GACGCTGATC TCCTTTTCTT CTTCTTCCTA      120
CTCTCATAGT GCTCATAGGA AGAGCTGCCA GGGCTCCCCG ACCGCGACCG GGACGTCCTC      180
CGGCTGTGGC CCCAGGGGCC CCGCTGTGTC TCCCTGCTCT TGTCTTGGC TTTCTTCCTC      240
TTAGCTCGCT CTCGGCTGCT GGAGCGGTCA CTGGAGGACC GCCGGCTCTT GGCCTTGGAC      300
CGGTGCCTCC TGGGGCGCTC CTCACCCACT GATGGTGACG CCGACCTCGA G                351

```

(2) INFORMATION FOR SEQ ID NO:983:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 488 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:983:

```

GAATTCGGCC TTCATGGCCT ACACAAATAT TGCTGTTCCA TGTTCTCCAC TTTCATTTTC      60
CACTACAAAT GAAAAGCAAT TTTTGAGACT GAATCTGTTG CTATTTTAAA GGTTATTGTG      120
GGAAACTGAG CTAAAGGAGT TAGCATCTTT ATTTTGTAT CAAAAATAAA GGTTATTTTG      180
AAATTATTAG GATTTTACA CAATTCTGAA ATCTGTTGCT TTTGTAAACA AATTGTTTGA      240
TCTTAGTGAT CCCCCTACTA CTACCACCAA TTCACTTCAC AAAGTCAGTT ATGAGTCTAC      300
CAGACTTTGT TCTGAAAAAT AGAAACAAAA CACCTGATTA AGCTCTTGAG TATGGCATAG      360
GAATTTTTTA GAAGAATGCA TTCAAGGATT CTTTTCCTTT CCTTCAGTGT CATTAATGTT      420
AAAAGAGCAG CCACTGTTTT GTTGAAACAA ACAGCTTAAC TTCAGAAATA AGAACTAGCA      480
CACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:984:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:984:

```

GAATTCGGCC TTCATGGCCT ACCTCCTGGC TCAGCAGGCT CCCTCCTTTT ACCAAGACTG      60
CTGGGACGTT GAACTCCGGT GTCTGATCAT CTCACCTACT CTCCTCCTAA CTCCCAACTG      120
AAATCCATCT CCTCTCTTCC TCCCAACAT CCATCTCTTT CCAACATGC CTTTGCACCT      180
AGAGCAGGTG AAGAAAGCCC ATGACTAAAA CTAAAGACTC AGAATGAAAC AAAAGGTGTG      240
ACAAGTTATT TGTGGGGAAG GTTTTCAGAT ATGTTCCAAG AGAAAATAAG GTAAAACAAC      300
CTTGTTTCATC AGACCAACAG TGCTGGAAAG GGCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:985:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:985:

```
GAATTCGGCC TTCATGGCCT ACCTGAATTG GGTGGCGAGT TCCCTGTGCA GGACCTGAAG    60
ACTGGTGAGG GTGGNTTGCT GACAGTGACC CTGGAAGGGA TCAACCTCAA ATTCATGCAC    120
AATCAGTGTG ACCTTTTATC TCTCAGTGGA CATTCTTAA GCTAATTCCT TTCTGAGGCC    180
AGCGCATCAT CCCAGGAGCG GAAGGTTTTC ATAGAGCTGA ATCACATTAA AAAGTGCAAT    240
ACAGTTCGAG GCGTCTTTNG TCCTGGAGGA ATTTGGTAAT TACACTATTT TGCTCTTAGG    300
TCTGGACTCA CATGGCAGTA ACTCAAACCT CGGAGCTCCA GAGGAGGGTC TAGGGGCAGG    360
GAGAAGAAGA ACCTCTGTAG AGAAGTCTGG AGGAGCAGGA GTGACAAGGA AGAAAAGGGA    420
CCCCTGAGAT GAGAGCCGGG ATGTGGAAGG GAAAGATAGA TAATGGATCG CAGAAGAGCA    480
AATGGGGCCT CNGGTGGTAC TCGAG                                         505
```

(2) INFORMATION FOR SEQ ID NO:986:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:986:

```
GAATTCGGCC TTCATGGCCT ACACCTTCAC ACCTGTCCTT ACCTCCATTC TCACTTCCAC    60
TGTCTTCACT AACTCCACCA TCATCACTTC AATCTTCCCT TCCATTCTCA CTCTCTTCTC    120
ACTCACTGTC CCTCTTTCAC CTCCATCCTC ATCTCTGTCC TCCCGTCTAT TCTCCTCTCC    180
AACCTCACTT CTGTCCTCCC CTTCCTCCTG CTCTCCATCC TCACCTCCAT CCTCACCTTC    240
AACCTCACCT TTATCCTCAC CTTCAACCTC ACCTTTATCC TCACCACTCG AG              292
```

(2) INFORMATION FOR SEQ ID NO:987:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:987:

```
CTCGAGTATC CACTTGCCTC GGCCTCCCAA GGTGCTGGGA TTACAAGCAT GAGCCACCAT    60
GCACGGCTGT AGATGTAAAT TTTGGAAAGA GGAAGGCATC AAATTAGGGG TGGGGGGATG    120
GAGGTACATC CAGCTTAGCC TTCAGACCTT AATGGAAATG CTTTCTAAAC TAGCGATCCC    180
AGAGCAGTTG ACTCTCCTGA AATAAACAG GATCTGAGTA GGCCATGAAG GCCGAATTC    239
```

(2) INFORMATION FOR SEQ ID NO:988:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:988:

```

GGCAGACTGC AATACCTGCG TGGAAATAGA AGACAGAAAG GTTCAAGAC AACAGATGAA    60
TTGTGAAAGA GAGCAGCTAA GGGTAATCA GGAAGCAGCC GCTGCCCTG ACACAATGGC    120
TCAGCCTTAC GCTTCGGCCC AGTTTGCTCC CCGCAGAAC GGTATCCCCG CGGAATACAC    180
GGCCCTCAT CCCCACCCCG CGCCAGAGTA CACAGGCCAG ACCACGGTTC CCGAGCACAC    240
ATTAAACCTG TACCTCCCG CCCAGACGCA CTCCGAGCAG AGCCCGGCGG ACACGAGCGC    300
TCAGACCGTC TCTGGCACC CGACACAGAC AGATGACGCA GCACCGACGG ATGGCCAGCC    360
CCAGACACAA CCTTCTGAAA ACACGGGCT CGAG                                394

```

## (2) INFORMATION FOR SEQ ID NO:989:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:

```

GAATTCGGCC TTCATGGCCT ACTTCCGGGC TTTGACTCAA TTCATGGGAA ACAGGAAAAG    60
CAAAACTAGT TGATCTTGCT ACTAAGGCGG ACTGAAGTTT CTTGTCTTCA TTGCTAAACA    120
ACTTCCAAAT CACTTTGACT CTTTGACCAT ATTCATGTCT ATTTCCTATT AAAGCATCAC    180
AAAATAATGA AGGAATTCTT AGGAAGAGCC TCAAGATGCC CATGTGGCGT CTGTGTGGGC    240
TGCCTCGTCT GGTAGTTCAG GGACCCACTG GGCCATTGTA AGGGCAAAGA GAAAGCCCCA    300
GGTCTCATGG CAGGAGACAA GACTTCCACA GTGGTGAGCC AGTAAGGAAC AGGGCACGTA    360
CTCGAG                                366

```

## (2) INFORMATION FOR SEQ ID NO:990:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:990:

```

GAATTCGGCC TTCATGGCCT ACATGTTTAT TATGAAGTTA TTAGTAATAC TTTTGTTTTC    60
TGGACTTATA ACTGGTTTGA GAAGTGACTC TTCCTTAGT TTGCCACCTA AGTTACTACT    120
AGTATCCTTT GATGGCTTCA GAGCTGATTA TCTGAAGAAC TATGAATTTC CTCATCTCCA    180
GAATTTTATC AAAGAAGGTG TTTTGGTAGA GCATGTTAAA AATGTTTTTA TCACAAAAC    240
ATTTCCAAAC CACTACAGTA TTGTGACAGG CTTGTATGAA GAAAGCCATG GCATGTGGC    300
TAATTCATG TATGATGCAG TCACAAAGAA ACACTTTCT GACTCTAATG ACAAGGAGCT    360
CGAG                                364

```

## (2) INFORMATION FOR SEQ ID NO:991:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:991:

GAATTCGGCC	TTCATGGCGG	GGAAGAAGAC	AAGAAAATTA	ATGAAGAACT	GGAGTCTCAA	60
TATCAGCAAA	GTATGGACAG	TAAATTATCA	GGAAGATATC	GGCGACATTG	TGGACTTGGC	120
TTCAGTGAGG	TAGAATACCA	TGATGGAGAA	GGTGATGTGG	CTGGAGATGA	TGATGATGAC	180
GATGATGATT	CACCTGATCC	TGAAAGTCCA	GATGATTCTG	AAAGCGATTG	AGAGTCAGAG	240
AAAGAAGAAT	CTGCTGAAGA	ACTCCAAGCT	GCTGAGCACC	CTGATGAAGT	GGAGGTCTCG	300
AG						302

(2) INFORMATION FOR SEQ ID NO:992:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:992:

GAATTCGGCC	TTCATGGCCT	AGGTGCAGCA	GGTCCTCTGG	GAAGTGTCCG	ACAAAGGAGT	60
CGCCCACTGG	AAGGTTCTGG	GCAGGCGAGA	TGCCAGAGG	TGATCCCCTGC	CCGCCCCCTCC	120
CACCTCCCTT	CCCACACAGC	CCATGGAGGT	GTTTGTGGAC	GACGAGACCA	AGCTCACGCT	180
GCACGGCCTG	CAGCAGTACT	ACGTCAAAC	CAAAGACAGT	GAGAAGAACC	GCAAGCTCTT	240
TGATCTCTTG	GATGTGCTGG	AGTTTAACCA	GGTGATAATC	TTCGTCAAGT	CAGTGCAGCG	300
CTGCATGGCC	CTGGCCCAGC	TCCTCGTGGA	GCAGAACTTC	CCGGCCATCG	CCATCCACCG	360
GGGCATGGCC	CAGGAGGAGC	GGTGAGTNCG	AACCGCCCGC	CAAGGCTGCA	GGGNGCACCA	420
CCAGGAGCCC	AGTGTCTGAC	GGCCTCCACT	TGTTTCTCCT	GCACCCCNCC	CCATCACGCT	480
CGAG						484

(2) INFORMATION FOR SEQ ID NO:993:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:993:

GAATTCGGCC	TTCATGGCCT	AAAGGAATTT	ATCTATTTAA	TCATTGAATG	TATTGAACAT	60
TCATTTGTTT	ATAATTTTGT	TTTGTTATTG	AAAATGTCTG	TAAGATTTAT	AGTGATGTTC	120
CCTTTTCTAT	TCCTGACATT	GTAAATTTGT	GTCTCTCTC	CCTCCATCCC	TCTCTCACAT	180
CTCGAG						186

(2) INFORMATION FOR SEQ ID NO:994:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:994:

```

GAATTCGGCC TTCAATGGCCT AGTGTTTCA TAAAGGGGTT GAGGCCACCA GTACTGCAGC      60
GAATTTTCCTT TTCTTCTCCC TCCTCCTTCC TTCTCTGAGC TTGCTTTTAG GGAAGGTAA      120
TCTTACAGGC TACCTATGTT TCTCTCCACC TTAATAAAT CTAAATAATG ATAGAAATTT      180
TAAGTTTTTA AATTGAGTAG TTCTGAGTAA TCCTAGAATA TTTTCCAAA TTAAATAATC      240
CTTTATTATT TGCAAGTTGG GCCAAATTTT TTTTITTTG GAGACGGACT CTTAACAATC      300
TAAGATTGTT TCAACAGGAC TTTCTTATTC CCATTCCCTC GAG                          343

```

## (2) INFORMATION FOR SEQ ID NO:995:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:995:

```

ATCTTTAACA GAATTATTAT TATTTAATAT AGAAGCACAA GCAGGGGAAA AATACGTCAT      60
CAAAATTTTC AAGTAGTCAA CTCATTATTG GAGCCATTTT ATTTTATAAT TTTATTTATC      120
AGCTGGTTCA GAATTCAAAA GGGCATGTAA TGAAGTCGCT ATCCTGCTTC TGTTTCCCAG      180
CTATCCAGCT TCCCTCCCTG GAGGCAAACA GTGTCATTGG TTTTCAATAT ATCCTTCCAG      240
ATGTATGTTA TCCGTAACTC TCGAG                          265

```

## (2) INFORMATION FOR SEQ ID NO:996:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 77 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:996:

```

GATTCGGCTT CATGGCCTAC AGCAGACACC CTCCTGCCCA CACCTACTTG TCCGCGCGGT      60
CTGAGGTTTG CTTGAGG                          77

```

## (2) INFORMATION FOR SEQ ID NO:997:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:997:

```

GAATTCGGCT TCATGTCGCT CTTCTGCAG GTCAACATGT ACAGCAGCGT CTTCTTCCTC      60
ACCTGGATGA GCTTCGACCG CTACATCGCC CTGGCCAGGG CCATGCGCTG CAGCCTGTTC      120
CGCACCAAGC ACCACGCCCC GCTGAGCTGT GGCTCATCT GGATGGCATC CGTGTTCAGCC      180
ACGCTGGTGC CCTTACCGC CGTGCACCTG CAGCACACCG ACGAGGCCTG CTTCTGTTC      240
CGGGATGTCC GGGAGGTGCA GTGGCTCGAG                          270

```



## (2) INFORMATION FOR SEQ ID NO:998:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:998:

```

GAATTCTAGA CCTGCCCCCA GGCCACAGTC ACACCCCCCA GGAAGGAAGA GAGAATGGAT      60
TCTGCAAGAC CATGTCTACA CAGACAACAC CATCTTCTGA ATGACAGAGG ATCAGAAGAG      120
CCACCTGGCA GCAAAGGTTT TGTCACTCTA AGTGATCTTC CAGGGTTTTT AGGTGATCTG      180
GCCTCTGAAG AAGATAGTAT TGAAAAAGAT AAAGAAGAAG CTGCAATATC TAGAGAACTT      240
TCTGAGATCA CTCACAAACT CGAG                                         264

```

## (2) INFORMATION FOR SEQ ID NO:999:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:999:

```

GAATTCGGCT TCATGGCCTA GCGGATTGTA ACTGCCTATG AGAATAGCTC TCAGCATGAT      60
CCCAGTTCAA ATAACGCTAT GCTTGGGGTT CATGCATCAG CTTAGCGAT CATCCAGTAT      120
GGAAAAATCG CCCGGAAACA AGGACTGGTC AATGTAGCTC TGGATATATT AAGTCGGATT      180
CATACTATTC CAACTGTTCC TATCGTGGAT TGCTTCCAGA AGATTCGACA GCGTACTCGA      240
G                                         241

```

## (2) INFORMATION FOR SEQ ID NO:1000:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000:

```

GAATTCGGCC TTCATGGCCT AGAATTGAAT TTAGACTTTA CAGAGTTACT GGTTCGTAAA      60
TCTTTGAGTT GTTTAAATTT TAATGTTAGA GTTTTACTGT TTGATCAGCA CATTTTTTTT      120
CTCTTTTGTC TATAGCCCCG AAATGTTTGA GACGCGGATT AAGGAGAGCA CCTCCTCTAA      180
GAGCCCTCCC AGAAAAATAA ATTCATCACC CAATGTTAAT ACTACTGCAT CAGGTGTTGA      240
AGACCTTAAC ATCATTCAGG TGACAATTCC AGATGATGAT AATGAAACAC TCGAG         295

```

## (2) INFORMATION FOR SEQ ID NO:1001:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001:

```
GAATTCGGCC TTCATGGCCT AGATATTTAG AAATTTTGTG TATTATATGG AAAAAGAAAA    60
AAAGCTTAAG TCTGTAGTCT TTATGATCCT AAAAGGGAAA ATTGCCTTGG TAACTTTTCAG    120
ATTCCTGTGG AATTGTGAAT TCATACTAAG CTTTCTGTGC AGTCTCACCA TTTGCATCAC    180
TGAGGATGAA ACTGACTTTT GTCTTTTGGA GAAAAAAAC TGTACTGCTT GTTCAAGAGG    240
AGCTCGAG                                         248
```

(2) INFORMATION FOR SEQ ID NO:1002:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002:

```
GAATTCGGCC TTCATGGAGT CAGCCTTCCA GTCCTCATCT CAGAAATTGA CTAGCCAGAA    60
GGAACAGAAA AACTTAGAGT CTTCAACAGG CTTTCAGATT CCATCTCAGG AGTTAGCTAG    120
CCAGATAGAT CCTCAGAAAG ACATAGAGCC TAGAACACCG TATCAGATTG AGAACTTTGC    180
ACAAGCGTTT GGTTCCTCAGT TTAAGTCGGG CAGCAGGGTG CCAATGACCT TTATCACTAA    240
CTCTAATGGA GAAGTGGACC ATAGAGTAAG GACTTCAGTG TCAGATTTCT CAGGGTATAC    300
AAATATGATG TCTGATGTAA GTGAGCTCGA G                                         331
```

(2) INFORMATION FOR SEQ ID NO:1003:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003:

```
GAATTCGGCC TTCATGGCCT ACAGTATTGG ACTTTCAGAA GCTGAACAGA TGATGGGTGA    60
GCAAACTGGT TTAGCAGACC CAAGAGAGCT GAATCCTAAG CCAGCAAATA GAGAAATCCA    120
AGATTCAGCC CAAATTATGC TTAGAATTC CTCAAAGGCT CAGAAACTGG CTGCACTAGT    180
TCCCCCGACA GGAAGCATGG ATTGAGGAGG TACCAAACCC ACTCCCCACC AAAAACCCAA    240
AACTCGAG                                         248
```

(2) INFORMATION FOR SEQ ID NO:1004:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004:

```
GAATTCGGCC TTCATGNCCT GNGAAGAGN AACAAGAGAA CAAAAAAAAAN ANAAGTCGAG      60
AGTCAGTAAT TTTCTTACTT AATATTGNGG GGATNTTACT TNATACATAA AGTTANTGAA      120
ACTAGAAATA GTGGTTTAAT ATATTACTTN TAATTCAAAA ATTAACCTAT ATTTACAGAT      180
GCTCTACACA GTTCTTTTGT GAATCCACCT ATGGTTTTAT TTTNATTAAT TTTTNTTNC      240
ANAGCNATGA AATGTTGCTT TGTGGNGCCA GCGCACTCGA G      281
```

(2) INFORMATION FOR SEQ ID NO:1005:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005:

```
GAATTCGGCC TTCATGGCCT ACATAAACCA TCACATTTAA TCTGGCAGCT GCCCTGTTTT      60
TGAGGTTTTT TTTGTATTTA TCTTCTTTG GTAAATGAAA GCTCTCATCT TTGTTTACAG      120
GCCAGAAAAA CTGAAAAAGA CACAGGCTCT TCCACTTACT GGATGTTTGA CAAAATGATA      180
TTTTGGGGCC AAAACATTGG CATTACTGGT AACTTGGA GAGATTCACT AACTCAGACT      240
TTATTCAGA TCTCCTGAAA AAATAATCTG CATTAACATG ATGACTCGAG      290
```

(2) INFORMATION FOR SEQ ID NO:1006:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006:

```
GAATTCGGCC TTCATGGCCT AAATTTTCAC ATATATGTAT ACTTAATTTT CAGCAATTAT      60
GACACAATAA AAAGAATATG CAAATTTATT GTTGTTCAG AAGGTTTTGC AGGACTGGGA      120
ACGCTTTAGT GTCATCAACA GTAAACCTCA GATACTGTTC TGCACAGTTC AGAAGTACCA      180
TACCAGGTAT TGTGAGTGGC AAGAACGCCA GGGACAGAG ATGCTTCTGG TAGATGAGGG      240
CCAGAGAAAC CAGCTCTCCT CCATTTTGAC AGCAATTCT CACTGTGGCC ATTTGGCCTC      300
CATTATGTTT TGAGAGGAAC GCTCGAG      327
```

(2) INFORMATION FOR SEQ ID NO:1007:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007:

```
GAATTCGGCC TTCATGGCCT AAAAAAAAAAT ATAGTGTTTT ATGCCACAGA GAATCAAGTT      60
```

```

GCATTGTGTA TACTAAATGG TCAAGCATTT TCAAGAACAT GACAAAATAA AAACATACAA      120
ATTTATATCT CAAAAGGAAA GTATCTTCTT TCATGTCAGA TCATCAGCAC AGAAGCCCTC      180
GATGCATGCA AAGGCAAGCA CAGGCTCTGC AGATGAGATG TGAAGAAGCA ATTAGGGAAA      240
TTCTCGAG                                         248

```

## (2) INFORMATION FOR SEQ ID NO:1008:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 460 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008:

```

GAATTCGGCC TTCATGCCTA CATCAAACCC TTTTCTTGTA GCAGCACAGG ATTCTGAGAC      60
AGATTATGTC ACAACAGATA ATTAAACAAA GGTGACTGAG GAAGTCGTGG CAAACATGCC      120
TGAAGGCGCTG ACTCCAGATT TAGTACAGGA AGCATGTGAA AGTGAATTGA ATGAAGTTAC      180
TGGTACAAAG ATTGCTTATG AAACAAAAAT GGACTTGTT CAAACATCAG AAGTTATGCA      240
AGAGTCACTC TATCCTGCAG CACAGCTTTG CCCATCATTT GAAGAGTCAG AAGCTACTCC      300
TTCACCAATT TTGCCTGACA TTGTTATGGA AGCACCATTG AATTCTGCAG TTCCTAGTGC      360
TGGTGCCTCC GTGATACAGC CCAGCTCATC ACCATTAGAA GCTTCTTCAG TTAATTATGA      420
AAGCATAAAA CATGAGCCTG AAAACCCCCC AGAACTCGAG                                         460

```

## (2) INFORMATION FOR SEQ ID NO:1009:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009:

```

GAATTCGGCC TTCATGGCCT ACGACAAGTT TTAAATTTA CTCTTGAGTA TGGTTCCAGT      60
GATTTACCAG AAAAACCAAG AAGACAGGCA CAAAAAGCA AACGGCATTG GGCAAGATGG      120
ATTATCAACT GCAGTACAGA CTTTATAGTA TAGATCTGAG CAACACATGG AGTATCACAG      180
TTTCTCAGAG CAGTCTTTTC ATGCCAATAA TGGGCACGCA TCATCAAGCT GCAAACCTCGA      240
G                                         241

```

## (2) INFORMATION FOR SEQ ID NO:1010:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010:

```

GCGATTGAAT TCGACCACCT TGTTCAAATT TGTATTATT TTTCTACTTT TGTATTGATT      60
CTGTTAATTC TTATCTATTG GTTCAGCTTA CTTTTTATG TTGGTCACAT TTCTCTTCAT      120
TGATTGTGTT AATTTTCTTA TGTGATAGA CACATTTTAT GTTCATCACT TTTTCTCTC      180

```

CTCCTTCAAT TATTATCCTT CTGATTTCCT TTTGTTTCT CATAGTGTG GCCATCTCGA 240  
G / 241

(2) INFORMATION FOR SEQ ID NO:1011:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 338 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011:

GAATTCGGCC TTCATGGCCT AGGCCACAAC TCAAAAGCAT TATCTTTTTT AGGGTTAGTA 60  
 GAAATTGTTT TATGTTGAT CGAGGTTTGT TTGATTGTCA AAATGTACAG CCACAGCCTT 120  
 TTAATTTGGG AGCCCTGTT GTCATTCAAA TGTGTACCTC TACAGTTGTA AAAAGTATTA 180  
 GATTCTACTA TCTGTGGGTT GTGCTTGCCA GACAGGTCTT AAATTGTATA TTTTGTGGAA 240  
 AAGTTTATAT ACTCTCTTAG GAATCATTGT GAAAAGATCA AGAAATCAGG ATGGCCATTT 300  
 ATTTAATATC CATTCAATTC ATGTTAGCGG AACTCGAG 338

(2) INFORMATION FOR SEQ ID NO:1012:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 97 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012:

TGAATTCTAG ACCTGCCTCG AGCTCCAGCT GCCAACACCC TTGGACACAA TATTCAGTC 60  
 TCCACTGCCC ATCTCATGTG GTTGCAAGNT CCTCGAG 97

(2) INFORMATION FOR SEQ ID NO:1013:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 412 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013:

GAATTCGGCC TTCATGGCCT ACACATTCTG GGGGAAAAAA ACTGGAATTG TTTGTATTTT 60  
 GTTTTTTTGG GGGGGGATCT TTATGTGAAA AATCAGAGCT ACTTGTTACC ATAAGCCCTT 120  
 ACTATCAACA AGATAATTAT TTGTAATCAC TTTTATATCC CAGGTGGAA TTGCTTTCCC 180  
 CTTCTAAGTT ATCTCCCTT AATAATATTT ATGATACCAG GACAGTGAGG GTATAAGAGC 240  
 AAATGTAGTG AGGTATTCAA AAATCCTGCA TATATGGACT CAAAAGTTCT TTAGTTATTT 300  
 GAATTATATA TAGCTATATT ATTTTATTAG CTGGGGTTGT CAGAAGATTG CCAATTTTAA 360  
 GACTAAAGAG GAGAGAGATA AGTAATAAAA ATAGAGGAGG GGTACTCTCG AG 412

(2) INFORMATION FOR SEQ ID NO:1014:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 218 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014:

GAATTATGTC TCCCATCTGT GCTTTTCCTA AGTGGGGCTC CCGTGCCGTT CACCTCACAT	60
TCCTGGTGTG TTACTTGGCA GGCAC TCCCA CCACTCCGAA AGGGAGGCC TTCTGGGAG	120
GGAGGCAAGA AGGCTCCCA GCCCCTTGC CCCCTTTCCT GGGCCTGCGT TCCCAGGGCC	180
TCCCCAGCCC CTCTGGCTAC CCCGTGACCT GCCTCGAG	218

(2) INFORMATION FOR SEQ ID NO:1015:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 513 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015:

GAATTCGGCC TTCATGGCCT ACCTTATTAC CAGACAACCT TAACCAAACC ATTTACCCAA	60
ATAAAGTATA GGCGATAGAA ATTGAAACCT GGC GCAATAG ATATAGTACC GCAAGGGAAA	120
GATGAAAAAT TATAACCAAG CATAATATAG CAAGGACTAA CCCCTATACC TTCTGCATAA	180
TGAATTAAGT AGAAATAACT TTGCAAGGAG AGCCAAAGCT AAGACCCCG AAACCAGACG	240
AGCTTCGGGG GAAGTATGTA GGAGTTGAAG ATTAGTCCGC CGTAGTCGGT GTACTCGTAG	300
GTTCACTACC ATTGGTGGCC AATTGATTG ATGGTAAGG AGGGATCGTT GACCTCGTCT	360
GTTATGTAAA GGATGCGTAG GGATGGGAGG GCGATGAGGA CTAGGATGAT GGCGGGCAGG	420
ATAGTTCAGA CGGTTTCTAT TTCCTGAGCG TCTGAGATGT TAGTATTAGT TAGTTTTGTT	480
GTGAGTGTTA GGAAAAGGC ATACAGTCTC GAG	513

(2) INFORMATION FOR SEQ ID NO:1016:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 74 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016:

GAATTCGGCC AAAGAGGCCT ACCAAAATAA AAACAGAAAT TATGAGATTG CCTCAACTCC	60
CACATATGCT CGAG	74

(2) INFORMATION FOR SEQ ID NO:1017:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 361 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017:

```
GAATTCGGCC AAAGAGGCCT AAAGACCTGA GGTCCAGGAT GAGCTCTTTC CCACAGAAAC      60
TTTGACAAAT GTGTGGACAA TAAAGNAGCA CTGCTTCCCT CATTCACCAT AGCTCAGCTG      120
GATTATAGA TTTAAATCTT TTAACGAAAA AGTTCATGTT GAGGTATTTA GATACTTTTT      180
AGAGGGTTAA ATACCAAGTT ACAGTGACAT TTAAACCGAG TGTCTAGAAC ATGAAGGCAA      240
AGAGTCTGCT ATTCCGAGGT AAATTTTATC AGTGTTTGAA AGGTGAAGCA TTTGCTCATG      300
AAATGTTGAA TGAATTCTG TGACATGGCA CGAGGGTGGT AAGAAAAAGT GGGAACTCGA      360
G
```

(2) INFORMATION FOR SEQ ID NO:1018:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018:

```
GAATTCGGCC AAAGAGCTAC GAGAGTGTC TGAATATCT CCGAGAGTCC TTCAGTGAGA      60
GGTTGTTTTT TTTTCTATG GCTGGTGTC CTTCTCTGG AGCATCTTCA TCGTTTCATC      120
ACAGTCACTT TCTAACTGGA GTCAGTAAGT TCACCTTCTT TAAGCTTCCC AGGCTGCAGA      180
TACAGAGAGT GTCCACATTC CACAGTCAGC TATTTCTACG ATCACTCCAT TTACGCTTGG      240
TTCAAATTTT ACTCCCAGTG TTACCACTTC TCATTCTTTT GCTGTGTTTC ATCTGGGCCA      300
TTTGCTTCTT ATGATTACCT GTTTTGTAA ACTGTCATGT GGGTTTATCC CTGGGAGACA      360
AGGAGACAGC ACAACCCCTT GGTTCGCTGT CTGTGAGCGA ACTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1019:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019:

```
GAATTCGGCC AAAGAGGCCT ACTAAGTTCT GTGAAGTGTA TGTAGCATCT GGGCTATAGA      60
TTTGGAGCTT TTAGTGACTC TNGAGAGTGG TGAAGGAGTA TCTGCAGCTC TGATGACAGG      120
NACAGAGAGA GAGAGAGAGA GATGGGTATG CCATCCGTGG ACACCAGGAA GAGTACCGAG      180
GACTGCTGTA GGCTCCTTCA GTTCTAGTTT CCAACTCAA GCAATTTTAA AGTTTTTGTG      240
TAATTATGNN TCGGCTCTGC TAAGANANNA AGGTACCTTA CATAAGTCCC TCAAAAGACT      300
TGTGTGTTTG AAGATGGCGC CCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1020:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020:

GAATTCGGCC AAAGAGGCCT ATGAATGCTA TATACCCTTT TTATATCAAA AGTCTCAAGC	60
ACTTATTTT ATTCTATGCA TTGTTGTCT TTTACATAAA TAAATGTTT ATTAGATTGA	120
ATAAAGCAAA ATTACTCGAG	140

(2) INFORMATION FOR SEQ ID NO:1021:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021:

GAATTCGGCC AAAGAGCTAC GGCCAAAGAG GCCTAGACTC GCCGCTGNTC TCACACCAGT	60
GTGGAACGTC CCCGCCNTC CCCTTGGGTC CCTTATCTTA GGGGACCGGG ACGTCCATCC	120
CTTCTGCAGT GGCAGCNTCT GAGCCAAAGC GCCTCTCCA GAAGCCGGAC TTTCCAGGAC	180
CCTCACTCCC AGCCACACCC TGACACGGCC TGACTGGGGT CTCCTGTGAG TCCCATGCTC	240
GGCTTTGTCT GACACCTCCC AGGACAAGAC CGTCCCTTCT CCCCAACTG GGCTCTCCAC	300
CAAGAGCCGC GTTCACCCAC GGGGGAGTGG GCTCCACACA GGCCAGTCCT CGAG	354

(2) INFORMATION FOR SEQ ID NO:1022:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 633 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022:

GAAAGAGGCC TAATCGTCAC ATCCATCAGA GGATTGCTGA TCACTCTTAC CAAGTTCTTT	60
TATGCCATCT CTAGCAGTAA GTCCTCCAAT GTCATTGTCC TGCTATTAGC ACAGATAATG	120
GGCATGTACT TTGCTCCTC TGTGCTGCTG ATCCGAATGA GTATGCCCTT AGAATACCGC	180
ACCATAATCA CTGAAGTCCT TGGAGAACTG CAGTTCAACT TCTATCACCG TTGGTTTGAT	240
GTGATCTTCC TGGTCAGCGC TCTCTTAGC ATACTCTTCC TCTATTTGGC TCACAAACAG	300
GCACCAGAGA AGCAAATGGC ACCTTGAAC TAAGCCTACT ACAGACTGTT AGAGGCCAGT	360
GGTTTCAAAA TTTAGATATA AGAGGGGGGA AAAATGGAAC CAGGGCCTGA CATTTTATAA	420
ACAAACAAAA TGCTATGGTA GCATTTTTC CCTTCATAGC ATACTCCTC CCCCTCAGGT	480
GATACTATGA CCATGAGTAG CATCAGCCAG AACATGAGAG GGAGAACTAA CTCAGACAA	540
TACTCAGCAG AGAGCATCCC GTGTGGATAT GAGGCTGGTG TAGAGGCGGA GAGGAGCCAA	600
GAAACTAAAG GTGAAAAATA CACGAACTC GAG	633

(2) INFORMATION FOR SEQ ID NO:1023:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 665 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023:

```

GAATTCGGCC AAAGAGGCCT ATCTGCGAG TGGAGTGTCC GCTGTGCCCG GGCCTGCACC      60
ATGAGCGTCC CGGCCTTCAT CGACATCAGT GAAGAAGATC AGGCTGCTGA GCTTCGTGCT      120
TATCTGAAAT CTAAAGGAGC TGAGATTTCA GAAGAGAACT CGGAAGGTGG ACTTCATGTT      180
GATTTAGCTC AAATTATTGA AGCCTGTGAT GTGTGTCTGA AGGAGGATGA TAAAGATGTT      240
GAAAGTGTGA TGAACAGTGT GGTATCCCTA CTCTTGATCC TGGAAACCAGA CAAGCAAGAA      300
GCTTTGATTG AAAGCCTATG TGAAGAGCTG GTCAAATTC GCGAAGGTGA ACGCCCGTCT      360
CTGAGACTGC AGTTGTTAAG CAACCTTTTC CCACGGGATG GATAAGAATA CTCCTGTAAG      420
ATACACAGTG TATTGCAGCC TTATTAAAGT GGCAGCATCT TGTGGGGCCA TCCAGTACAT      480
CCCAACTGAG CTGGATCAAG TTAGAAAATG GATTTCTGAC TGAATCTCA CCACTGAAAA      540
AAAGCACACC CTTTAAAGAC TACTTTATGA GGCACCTGTG GATTGTAAGA AGACTGATGC      600
TGCTTCAAAA GTCATGGTGG AATTGCTCGG AAGTTACACA GAGGACAATG CTTCCAGGC      660
TCGAG

```

(2) INFORMATION FOR SEQ ID NO:1024:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 549 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024:

```

GAATTCGGCC AAAGAGGCCT ACTTGATTG GATTCACATT GCTTTCATT CTAAAAATGC      60
TTCACCTCAG GTTCTTGGTC TTGGAAATAA ATTTCAAGGT GCATTGTATC CATTTTAAGC      120
TGCTTTATTT TATTTTCACT TGTATGAGCA AATTCTTGGG GGAGCTTTGC TTTTCTTCTG      180
CCAGAAAAAC AAAAGGGGGA AATGAAAATC TTTTTTGGAA TGAGTTCTGT GGGTTTCTT      240
AACAGCCACC ATGTTTATTA GTTACATTGT GTTTTGGCCA ATCAGTGCAA TGTAACAAAT      300
TTTACAGTTA ATTGCTTTCA ATTGAGTCAG TAAACCTGTG ATAGATAATT TATTTAACTG      360
GAAAACCTAG GTACCCATAA GAAAAAAGAT TCATTCTCTG TGAAGACTGT AGGAATCTGT      420
TGTGTGTTTC ATTTGAATAT GCTCTACTTC TGCTCTAGTA TTTGGTTTGG AATATATTTT      480
GTGGCTCTAA TTAAGTATT TTTAAAAACC CTACCTCCAT TAACAGTTGG TAAAGGCCCC      540
CTTCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1025:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025:

```

GAATTCGGCC AAAGAGGCCT AGTTAAGTCT GAACTAGTCT TTTCCTTGT GATGTGGTTG      60
GAAAGTCTTC CCTGTTCCAA GGACTCCTCG AG

```

(2) INFORMATION FOR SEQ ID NO:1026:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026:

```
GAATTCGGCC AAAGAGGCCT AGTTAAAAAC TAATATTTAT ATGACAGAAG AAAAAGATGT      60
CATTCCGTAA AGTAAACATC ATCATCTTGG TCCTGGCTGT TGCTCTCTTC TTACTGGTTT      120
TGCACCATAA CTTCCTCAGC TTGAGCAGTT TGTTAAGGAA TCAGGTTACA GATTCAGGAA      180
TTGTAGGGCC TCAACCTATA GACTTTGTCC CAAATGCTCT CCGACATGCA GTAGATGGGA      240
GACAAGAGGA GATTCTGTG GTCATCGCTG CATCTGAAGA CAGGCTTGGG GGGGCCATTG      300
CAGCTATAAA CAGCATTAG CACAACACTC GCTCCAATGT GATTTTCTAC ATTGTTACTC      360
TCAACAATAC AGCAGATCTC GAG                                         383
```

(2) INFORMATION FOR SEQ ID NO:1027:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 403 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027:

```
GAATTCGGCC AAAGAGGCCT ACATGTGGAC TGCACTGTTT ACTTTTGGTT GGACTGGGAC      60
AATTTGGGGA ATATCTACTA TGTTTATTCT TCAAGAACCC ATCATCCCAT TAGATGGAGA      120
AACCTGGAGT TATCTCATTG CTATATGTGT CTGTTCTACT GCAGCATTCT TAGGAGTTTA      180
TTATGCCCTG GACAAATTCC ATCCAGCTTT GGTTAGCACA GTACAACATT TGGAGATTGT      240
GGTAGCTATG GTCTGCAGC TTCTCGTGCT GCACATATTT CCTAGCATCT ATGATGTTTT      300
TGGAGGGGTA ATCATTATGA TTAGTGTTTT TGTCCTTGCT GGCTATAAAC TTTACTGGAG      360
GAATTTAAGA AGGCAGGACT ACCAGGAAAT ACTACGACTC GAG                                         403
```

(2) INFORMATION FOR SEQ ID NO:1028:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 71 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028:

```
GAATTCGGCC AAAGAGGCCT AAAACCGAAA CTTCGATGAA AATGAAATTC CTCAAGAGAA      60
TGGCACTCGA G                                                         71
```

(2) INFORMATION FOR SEQ ID NO:1029:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 349 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1029:

GAATTCGGCC AAAGAGGCCT AGAAACATGT CTAAGGTNGC ACACAGCTAG TANGCGTTAG	60
AAACGTGTCT CAAACCCAAG AGGTCTGGCT CTGGCATCCG TGATCATAAC CACTNGCTTT	120
GCCTGATCTA ACAGTAAAGA TGGATGAAAA AATAAATCAA GTGTGATGAG TGTATATAA	180
GAAAGGGGAA ATAGCAGGCT TCACTGTGGA ACATAGGAGA GTGGGCCTTC ATTCCCTCCA	240
GTTGAGGGCC AAATAAGGCA TCCCTGAGGA AGAGACATTA AGCTGAGATC TGAAAGGTGA	300
GCCTGAATAA GTTAGGTGAA GGAGCATGAG TAAAGGGAAG CCGCTCGAG	349

(2) INFORMATION FOR SEQ ID NO:1030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1030:

GAATTCGGCC AAAGAGGCCT ACTGATGATA ATAAACAGA GCTTTACTTG GGAGAAATTA	60
GCCTTGAAGG TGTGACATCC AAAACAATTT TTTTAAAAA ATTTAGACAA CTAAAAAGGG	120
AAATGTCAAA AGGGAGAAAC TTAAAAACA AAAGGAAAGT AGTCAGAGAA TCAGAGAGAA	180
AATATGAACA GAACACAGTA AAAAGGAATG GCTACAAGAG GGATCAGCAA CTCGAG	236

(2) INFORMATION FOR SEQ ID NO:1031:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1031:

GAATTCGGCC AAAGAGGCCT ATTAGAAATA AATATCTTCC TTCAATAGAT GAAAATGAAA	60
ATACAGAAAA AAGAGAGCAG TTGTCAAATT TAAAAGTTT GAATCACTCC CCAATGTCTG	120
ATGCCTCTGT CAATTNGAC TACAAATCTC CATCCCATT TGACTGCAGC ACTGATCAAG	180
AAGAGAAAAAT TGAAGATGTT GCTAGTCACT GTCTGCCTCA GAAGGACCTG TATACTGCTG	240
AAGAGGAAGC TGCTACCCCTT TTTCTAGGA AAATGACATC CCATAATGGG ATGGAGGACA	300
GTGGAGGAGG AGGTACTGGA GTGAAGAAGA AACGGAAGAA AAAGGAGCCA GGAGACCAAG	360
AGGGTGCAGC AAAGGGAAGC AAGGACAGAG AGCCCAAGCC AAAGAGGAAA CGAGAACCAG	420
AAAGACCAAA GGAAGAGCTC GAG	443

(2) INFORMATION FOR SEQ ID NO:1032:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1032:

GAATTCGGCC	AAAGAGGCCT	AATAAGAGC	AAAAAATGT	TAATGTCAAG	TCAAATTGCC	60
TGTAAATGAC	TTAAGGAATA	TGTTAATGAT	CTTGCTCCAA	ATGAATAATT	ATAAAGCAGG	120
TGCACTGGAG	ATATGATCAT	TTAACTGAAA	GAAAACAGCT	TCTAATGGCT	TCAATAACCA	180
AGATAATGGT	GATATTGGAG	AAGCCTGTTA	AACTCATTGT	TCATGCCATT	CATTTAATAC	240
ACAAGAGAAC	TTCAGATGGA	ATCTCCCTGT	GGACTCATTG	CCCTGCTTAT	TTAAATAGCA	300
GTTAATTTAA	ACACACACCC	AAGTCAAAAC	TGCATTATTT	CTAACACACC	TCTTTCTAAT	360
AAACTATGTT	CTCCAATAAC	AGAACCCCTG	TCTCGAG			397

## (2) INFORMATION FOR SEQ ID NO:1033:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1033:

GAATTCGGCC	AAAGNGGCCT	ATTTTAAAAA	TCACTTTAAG	NATCCAATAG	AGAACAACAA	60
AGCCATATTG	AGATGCAGGT	TTTAGGAATT	TGGTAGTAAT	CCCTCACAAG	GTCAGACTTG	120
ATCTCCTGGA	CAATCAGGCG	ATGCTAGTCA	GCTTTCATGA	CTCAGCAAAG	CTACAAATTA	180
TGTATTTTGG	CTTTTGTGG	AAATTGCCAA	CCCTACAGAT	AGCAAACGTC	TCCTCGGTTG	240
TCAAAAAGTA	AGAGTAGTTT	TTAGAATTCT	GCCTTTGGGT	CTGTAGAAT	GAAATATTTA	300
CAAGATTGTC	TATTTGTTAA	CATTTTAGCT	CCTTCCTTGT	TCCTTCAGTC	TTGCTGCTGT	360
GCACACCACC	AG					372

## (2) INFORMATION FOR SEQ ID NO:1034:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1034:

GAATTCGGCC	AAAGAGGCCT	AAATATGTTT	TTTCCTGCTT	TTATAACTGT	AAAATGGAAT	60
GTTCTTCTTA	CCTTTAACCT	TATGATTGAG	CTGTCCATAT	CAGGTTTTTT	TTTCTACTGA	120
CTATTTATTG	GGACTAGCTC	ACTTTATTAA	TTATGCATCC	TGATATCTTA	TAGAATGGAT	180
AGTGATTTTC	AATATTATTA	ATTAAGTGGG	CCTTTGTTAG	ATATAAAGCA	AGATACCTCC	240
AGTAGGTCCT	GTTAGCAGTA	AGTTTTATAT	TGTGGAGGTG	AACAAGGTAT	TTTTGTGTAA	300
ATCAGTTTAC	TAAATTGTAT	TATTTTCAAG	CTAGATTGTG	ACGGTAAGGC	TCGAG	355

## (2) INFORMATION FOR SEQ ID NO:1035:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035:

GAATTCGGCC TTCATGGCCT ACGTCTCAGC ATTATGCATT CCAGTTGGTT TTTCCCCATG 60  
 CTTTCTCCTGA GCTGTATCCA AGTGAGTCGT ATTAATTTC A GAGGAGTATT T 111

## (2) INFORMATION FOR SEQ ID NO:1036:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 560 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036:

GAAATTCGGC CTTATGGCC TANATGAACA AACTCCAGA TACCATTGAT AAGAAATTTT 60  
 GCATCAAGAA GGGCTTCTGA AAAGACCCAC GTGCTCCAGT CCCAGCTCCA AAAGCCACTG 120  
 ATGACAAGGG CCCCACTGTG GAACCTAAGT CTGGGAGCCC CCTGACTTCT GGCTGGCCAG 180  
 AGCTGCGGTC CGTCAAGGGC TTGCCTCGCT TCAGAATCAG TAACATAGAT CTTAAGTGCA 240  
 ATTGATTAAT AAGCAGTGAG TTAGCTGAGC TTCCTTTAGC TCTACCGAAC TCTTTTAA 300  
 AACTCAAAT TGAGCAGCCT TAGAAAAGGG GTTGGGGGGT GGAACCACAG GCCATTTCTC 360  
 TAAGTGGGCT GCTGTGAAGT TTTAAATGAA AGCTCTAGCT TTAGGAGCTT GAGCCATTTC 420  
 CTGACTGCAC TGGCCTGGCA GTCTGGCTGC TGCAGAAGAG TTTTAAAGA GGGGTCGGAG 480  
 CCCGCCCGTG AGAGCGGGTC TTCTCACCAT GTGGGGCTGT ACTACGTGGT GGTCTTGTT 540  
 TCTCTTCACA GAAATGCTCT 560

## (2) INFORMATION FOR SEQ ID NO:1037:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037:

AAATGGGCA GTGGTAGCAC CTGACCCAGG GCTGCTGTGA GGCCCCCTG GGCTGAAGCA 60  
 CATGTGGTGC AGAGGGCCAG GTTGGGGTGT GAGTGCCAGT TCCCACTGGC CTTAGGCCCC 120  
 ATCCACTGCT GCTCCCAGGG CCATGGGTGA GCCTTTCCAC TTCTTATAAA GTAGAGAAAA 180  
 GTATTTATAG TATCTTCTTT GGTAATTCCT TTTTCTTGGT GATGTTTCATC TGCAGTTCTG 240  
 TACATTTTTT CAGATCTTCT GATGAACAAA TTCCTTTAAT TTGTCATGTC AAACCTGTGA 300  
 ATATTTTCCT TTGTGACTCG AG 322

## (2) INFORMATION FOR SEQ ID NO:1038:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 517 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038:

GAATTCGGCT	TCATGGCCTA	CACTGTAGCA	AATTGCGTTG	GAAAAGAACT	AGCTCCACAT	60
GTCAAGAAGC	ATGGAAGCAA	ATTTGTCCA	GAATCTCTTA	AAAAAGACAA	AGATGGGAAA	120
TCTCCTCTGG	ATGGTGCTAA	TGGTTGTAGC	AGCAAGTAGT	GTTCAAGGAT	TTTCAACTGT	180
CTGGCAAGGA	TTGGAATGTG	CAGCTAAATG	CATCGTTAAC	AATGTTTCAG	CAGAACTGT	240
ACAACTGTC	AGATACAAAT	ACGGATATAA	TGCAGGAGAA	GCTACCCACC	ATGCGGTGGA	300
TTCTGCGGTC	AATGTTGGCG	TAATGCCTA	CAATATTAAAC	AACATTGGTA	TCAAAGCAAT	360
GGTGAAGAAA	ACTGCAACAC	AAACAGGACA	CACTCTCCTT	GAGGACTATC	AGATAGTTGA	420
TAATTCTCAG	AGGGAAAATC	AAGAAGGAGC	AGCAAATGTC	AACGTGAGAG	GGGAGAAGGA	480
TGAGCAGACG	AAGGAAGTAA	AGGAGGCCAA	ACTCGAG			517

## (2) INFORMATION FOR SEQ ID NO:1039:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039:

GAATTCGGCC	TTCATGGCCT	ACAGAATGAA	GAAAGCAAGC	AGGAGTGTG	GCTCAGTGCC	60
TAAAGTGTCT	GCAATAAGTA	AAACGCAAAC	AGCAGAAAAA	ATTAAACCTG	AAAACAGCTC	120
TTCAGCATCT	ACGGGAGGCA	AACTTGTGAA	ACCTGGAACA	GCAGCATCAT	TGTCAAAGAC	180
CAAGAGCAGT	GATGACCTTT	TAGCTGGAAT	GGCCGGAGGG	GTAACGGTGA	CTAATGGTGT	240
TAAAGGAAAG	AAAAGCACCT	GCCCATCTGC	AGCACCTTCA	GCATCTGCCC	CTGCCATGAC	300
CACCGTGGAG	AACAAATCCA	AGATTAGCAC	AGGCACAGCT	TCTTCAACCA	AGCGGAGCAC	360
TTCTACAGGT	AATAAGAAT	CCAGTTCTAC	TAGAGAAAGA	TTACGTGAAC	GTACCCGATT	420
AAACCAGAGC	AAAAAACTAC	CTTCTGCAGG	TCAGGGAGCT	AATGACATGG	CATTGGCCAA	480
ACGTTCCCGC	AGTCGAAGT	CTACAGAAATG	TGACGTTTCG	ATAAGCCTCC	CTATAGTGAG	540
TCGTATTA						548

## (2) INFORMATION FOR SEQ ID NO:1040:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040:

GAGGAAATGG	CCAAACAGAA	AGCAGCTCCT	GAAGCCAAGA	AACAGAAAGT	GGAAGGCACA	60
GAACCGACTA	CGGCTTTCAA	TCTCTTTGTT	GGAAACCTAA	ACTTTAACAA	ATCTGCTCCT	120
GAATTAAGAA	CTGGTATCAG	CGATGTTTTT	GCTAAAAATG	ATCTTGCTGT	TGTGGATGTC	180
AGAATTGGTA	TGACTAGGAA	ATTTGGTTAT	GTGGATTTTG	AATCTGCTGA	AGACCTGGAG	240
AAAGCGTTGG	AACTCACTGG	TTTGAAAGTC	TTTGGCAATG	AAATTAAACT	AGAGAAACCA	300
AAAGGAAAAG	ACAGTAAGAA	AGAGCAAGAA	CTCGAG			336

## (2) INFORMATION FOR SEQ ID NO:1041:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041:

GAATTCGGCC TTCATGGCCT AGGCTTCCCG AGCAGTCTCC AAACATATAT TACATTCGAA	60
GGTCGCGCCC GCCCCGCCCC GCTCGCGATT TGGCCCTTCG GGGCCCCCGT CCTCCACCTC	120
CTTCTCTCCC ATGATGCATT GTCATCTGGC TTTTATCACC TGTTCGCCC TTGAATTTGA	180
ACATGCCAAA GATATAAGTA TTGGATTGCA GTCTGTCAGT ATTATTGGT GAGTTTTTTT	240
TTAATGCATA CAGCTTTTTC ATAAGTGCAT AAATGGGATT ATATAAACAA TGTTTAGAGT	300
AGTTTTCTTT TTTACCCTTT TGCCTGGTTT GCTCTTCTTC CCTATCACAT CCCTTCCAAT	360
CCATCTCGAG	370

(2) INFORMATION FOR SEQ ID NO:1042:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 563 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042:

GAATTCGGCC TTCATGGCCT ACGCCATCTT CCAGTAATTC GCCAAAATGA CGAACACAAA	60
GGGAAAGAGG AGAGGCACCC GATATATGTT CTCTAGGCCT TTTAGAAAAC ATGGAGTTGT	120
TCCTTTGGCC ACATATATGC GAATCTATAA GAAAGGTGAT ATTGTAGACA TCAAGGGAAT	180
GGGTACTTTC AAAAAGGAAT GCCCCACAAG TGTTACCATG GCAAAACTGG AAGAGTCTAC	240
AATGTTACCC AGCATGCTGT TGGCATTGTT GTAAACAAAC AAGTTAAGGG CAAGATTCTT	300
GCCAAGAGAA TTAATGTGCG TATTGAGCAC ATTAAGCACT CTAAGAGCCG AGATAGCTTC	360
CTGAAACGTG TGAAGGAAAA TGATCAGAAA AAGAAAGAAG CCAAAGAGAA AGGTACCTGG	420
GTTCAACTAA AGCGCCAGCC TGCTCCACCC AGAGAAGCAC ACTTTGTGAG AACCAATGGG	480
AAGGAGCCTG AGCTGCTGGA ACCTATTCCC TATGAATTCA TGGCATAATA GGTGTTAAAA	540
AAAAAATAA AGAGACACTC GAG	563

(2) INFORMATION FOR SEQ ID NO:1043:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043:

GGCTTGATTG TTAGAGAAAT AATGTTGGAA GAAGAACCTT CAATAACATC AGGTGAAAGC	60
CAGACTACCT ACTCTACTTT CAGTGCTCCG TTAAATAAAG CAAATAGAAA AAAGTTAATT	120
GAAAGTCTTT CCCCAGATT TGTGCACCAA AACAAAGGGC TGTGCTGAC AGTTAATACC	180
AGTAGTCAGA ATGGAAGGCC TGGAGAACA CTTATTAAAG AAATCCAGAG TCCTCTGTCT	240
AGTATCTGTG ATGGCTCCAT AGCTCTAGAT GCTGAGCCTG TTACCCAGCC AGCATCGCTG	300
CCCAGACACA GCAGCACACC AGACCACACC AGCAGACTGG AGCCTCCTCG TTTGCCTCAA	360
AGAAAGAACT TACAAAGTGA AAAGGAACT CTCGAG	396

(2) INFORMATION FOR SEQ ID NO:1044:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044:

GAATTCGGCC	TTCATGGCCT	AAACTGGAAA	TCCTCTAAAT	GTCTGTCAAT	GAAGGAATAG	60
ATAAATTGTA	ATATGTTTCAT	ATAAAATGCT	GCATAAATAA	GTGAAATTTA	TAAATATACT	120
AACGAATGAA	TCTTGAAAAC	AGAGTTGGGA	GATAAAAGCA	AGCTGTGAA	GAACATGGTC	180
AGTATCCTCT	CACCTATGTA	AGTTAAAAAC	TCCAAAGAAC	ATTATCTATA	TTGGTAATGG	240
CATAGACATG	TGTGGTAAAA	TATAAAAATA	TTAACTAAAA	GTTCTATACG	CTTCAGGATA	300
TTGTTAGTAT	AATAAGGCAG	GAAGTGGATA	GCATTGGGAT	GAGAACTCGA	G	351

(2) INFORMATION FOR SEQ ID NO:1045:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 390 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045:

GATTCGGCCT	TCATGGCCTA	AGCAGCTCGG	GGTTCGGCAG	CAGCGSTCCC	ATCGGCTGAA	60
GTTCGGGGGG	GGTGGGGCGC	CGAGCGCGCG	GGGTGGGGGG	GGTCCTGGTC	TTTGGCTTCT	120
CGACTCGGTC	CTGTTTCGAC	AGCGAACATG	TCGCGGCCTG	TCAGAAATAG	GAAGGTTGTT	180
GATTACTCAC	AGTTTCAGGA	ATCTGATGAT	GCAGATGAAG	ATTATGGAAG	AGATTCGGGC	240
CCTCCCACTA	AGAAAATTCG	ATCATCTCCC	CGAGAAGCTA	AAAATAAGAG	GCGATCTGGA	300
AAGAATTCAC	AGGAAGATAG	TGAGGACTCA	GAAGACAAAG	ATGTGAAGAC	CAAGAAGGAT	360
GATTCTCACT	CAGCAGAGGA	AGCTCTCGAG				390

(2) INFORMATION FOR SEQ ID NO:1046:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 381 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046:

GAATTCGGCC	TTCATGGCCT	ATGAAGCATC	TGGATGGGGA	AGAGGATGGC	AGCAGTGATC	60
AGAGTCAGGC	TTCTGGAACC	ACAGGTGGCC	GAAGGGTCTC	AAAGGCTCTA	ATGGCCTCAA	120
TGGCCCGCAG	GGCTTCAAGG	GGTCCCATAG	CCTTTTGGGC	CCGCAGGGCA	TCAAGGACTC	180
GGTTGGCTGC	TTGGGCCCCG	AGAGCCTTGC	TCTCCCTGAG	ATCACCTAAA	GCCCCGTAGG	240
GCAAGGCTCG	CCGTAGAGCT	GCCAAGCTCC	AGTCATCCCA	AGAGCCTGAA	GCACCACCAC	300
CTCGGGATGT	GGCCCTTTTG	CAAGGGAGGG	CAAATGATT	GGTGAAGTAC	CTTTTGGCTA	360
AAGACCAGAC	GAAAACTCGA	G				381

(2) INFORMATION FOR SEQ ID NO:1047:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 318 base pairs



(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047:

GAATTCGGCC TTCATGGCCT AGGGGTAGCC CTTGACCGCC TCCTGCTGGC ACAGGTCTTG	60
GTTCTTGTCT TTGACGCAGT CAACAGCGGC ACAGGCAATC TTTCGGTCAT CTTTGAAGGC	120
ATCAGCAGTA GCAGTAAAGT GCGGAATGAC CTTCTTACAG TGTGGGAACC AAGGGGCGTA	180
GAACATGACC AAGGTGTGTT TCTTCTTCTT CAGGGTCTCC CGGAAGTTGT CCCCACCCAG	240
GTGCAACACG CTTGTCTGCT GCTCTTCCCA CGTGGGCTCT GGGGGCGGGG GGGCCTCAGG	300
GTTTTGCATC CACTCGAG	318

(2) INFORMATION FOR SEQ ID NO:1048:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 591 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1048:

GAATTCGGCC TTCATGGCCT AGCAAATTAT TCTTCAAAAT GATTATAACC AGTTGCACCC	60
TGTATTTCTT TTTGCAGCCA GCACAATGTG ACCCAACTTA AAATTGGGG GAAAAAGAAT	120
GCAGGAGTGA AATAACCAAG TCAAAACCAT GTACTATCTC CTTGGGGGTT AGGGATGCTA	180
AGAAGAGCCC ACAAATAGAG GATTACTCTT CCCCTGAATC TCTAAACTCA GAAACAATTA	240
CCAAAAAATA CATAACTCTT CTTGTAGGG CCCTTTCCTT ATTCATTTAG GTAGTGTGAA	300
CATTAAGTAT AAAATAAATT ATGTTCTTAA TGCCTCTTAA ACCACTTACA TTCAAAGGGG	360
AACAGAAATC ATTCTAAGCG GGAAAACTT CCACCTTTT TTTTTCATCA GTATCTCTCT	420
AATAACTAAA TGCCACTTAT TTGCATTCTC CTTGTGGATT TTTTGTCAAC TAAGGAAATG	480
CATTTGATGA GTGCTGGAAA CTTCTTAAGT GCTTTACAGT TTGTTTTCAT TGTTTGCAGC	540
GGATCACTGG ACATCAAAGA TTCATTGCAC TTATGAACAA GGAACCTCGA G	591

(2) INFORMATION FOR SEQ ID NO:1049:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 355 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1049:

GAATTCGGCC TTCATGGCCT AGGTTTCTTG GTGTTTTTGT TTTCTGGCAG GCAGTGAGAG	60
GAGGGGTGAA GGAGGAGTTT GGTGCCATTT CTCTTTCTGC TTTTTCCTCT TCTGATGTCA	120
AACAAATGAT GAAAATCCTG CTATGGGAGC CCGGGAGCCT GGGGCCAGGC TGCTGGGGGG	180
ACGGTAGAGG GTGCTCTGCT GACTTGGGGG GTTAGGGGGG TTCTGGGGCG TTGGAGTCCG	240
ACTGGCCTTG GGCCGAAAGA GGCTGCCCTG CTGGGTGCTG GTGCTGTTGG TGACGGTGGT	300
GTGGTCTGGC TCACCCGAGT CGCTCTCCGT GTAGCTGTAG GCCTGTGCCC TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1050:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 245 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1050:

```
GAATTCGGCC TTCATGGCCT AATGTGTTAG AAGACTCCCT CTACCTACCT GTTAAAAAAA    60
AAATGACTTT TTTTGCAATT TTTGCTGTT TCCTTAAAC TAAAGCTGTG TTCTTCTGTT    120
TTGAAGGGTT TCCGCCCCCA ACATATGTTA TCCCCCGCC TGTGGCATTT TCTATGGGCT    180
CAGGTTACAC CTTCCAGCT GGTGTTTCTG TCCAGGAAC CTTTCTCAG CCTACAGCTC    240
TCGAG                                         245
```

(2) INFORMATION FOR SEQ ID NO:1051:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 548 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1051:

```
AATTCGGCCT TCATGGCCTA GGGAGTTTGA GGGAGTTCTT TGGTATGCCC GCATCCCGGG    60
GTTGTTTGCT GGTATTATCT GCCACATTAT CACCTTGTA CGTTTATGGT ACCGGAGATT    120
GTAGGTAAAG TTTGTTTATG CTTCCACGA CCTCCTCTG TCGGGTCCGG ATGGTTTGTA    180
ATTGGGGTTT GCTTTATAGC AGCGAGGCCT GATAGGTAAA GTCTGCTGGC TTCACTGTGG    240
CGCCTAGATA AGGGCTTAGA AATGTAAAAA GGCTTGGGGC AGCATGGAGA GGAGTTGCAG    300
AGTGGGGAGG GGCAGGCAGC ACCAAGAAGC TTCTTGAGGC AGTTTGTCCC TAACAGATT    360
ATTTTCGGAA AGGAATTCTG AACTCTGAGA CCAAATCAGT ATATTTGTGT ATATTTTTC    420
ATATACTTCC AAAGTCTTTT AATTCTTAAT TAACCTGATA TTAAAGTGAA AAGGGTTTAC    480
TCTTTATCCT AGTTAATTAC ATATTCCATT TGTTAATGAA ACTATCCTTT GCTCACTGCA    540
TACTCGAG                                         548
```

(2) INFORMATION FOR SEQ ID NO:1052:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1052:

```
GAATTCGGCC TTCATGGCCT ACATAATACT TGCTGCTCTT GGGGTTGAAG CCGTTGTTAT    60
TTTCTTAGGA GTTAAGTTGC TTTCCAAAAA GATTGGCGAG CGTGCTATTC TACTGGGAGG    120
ACTCATCGTT GTATGGGTTG GCTTCTTTAT CTGTGTACCT TGGGGAAATC AATTTCCTCA    180
AATACAGTGG GAAGATTTGC ACAATAATTC AATCCCTAAT ACCACATTG GGGAAATTAT    240
TATTGGTCTT TGAAGTCTC CAATGGAAGA TGACAATGAA AGACCAACTG GTATGCTCGA    300
G                                         301
```

(2) INFORMATION FOR SEQ ID NO:1053:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 642 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053:

```
CGGAGGCCCT GAATGCCCCA TGCGCACCCC ACAGCTCGCG CTCCTGCAAG TGTTCTTTCT    60
GGTGTTCCCC GATGGCGTCC GGCCTCAGCC CTCTTCCTCC CCATCAGGGG CAGTGCCAC    120
GTCTTTGGAG CTGCAGCGAG GGACGGATGG CGGAACCTCC AGTCCCCTTC AGAGGCGACT    180
GCAACTCGCC CGGCCGTGCC TGGACTCCCT ACAGTGGTCC CTACTCTCGT GACTCCCTCG    240
GCCCCTGGGA ATAGGACTGT GGACCTCTTC CAGTCTTAC CGATCTGTGT CTGTGACTTG    300
ACTCCTGGAG CCTGCGATAT AAATTGCTGC TCGACAGGG ACTGCTATCT TCTCCATCCG    360
AGGACAGTTT TCTCCTTCTG CTTCCAGGC AGCGTAAGGT CTTCAAGCTG GGTTTGTGTA    420
GACAACTCTG TTATCTTCAG GAGTAATTCC CCGTTTCCTT CAAGAGTTTT CATGGATTCT    480
AATGGAATCA GGCAGTTTGT TGTCCATGTG AACAACTCAA ACTTAAACTA TTTCCAGAAG    540
CTTCAAAAGG TCAANGCAAC CAACTCCAG GCCCTGGTTG CAGAGTTTGG AGGCGAATCA    600
TTCACCTCAA CATTCCAAAC ACAATCACCA CCACTCCTCG AG                    642
```

(2) INFORMATION FOR SEQ ID NO:1054:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 496 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054:

```
GAATTCGGCC TTCATGGCCT ACCTGTGAGT ACCTGGATGA AGCATACCCA GGAAGAAGC    60
TGTGTCCGGA TGACCCCTAT GAGAAAGCTT GCCAGAAGAT GATCTTAGAG TTGTTTCTA    120
AGGTGCCATC CTTGGTAGGA AGCTTTATTA GAAGCCAAAA TAAAGAAGAC TATGCTGGCC    180
TAAAAGAAGA ATTTCTGAAA GAATTTACCA AGCTAGAGGA GGTCTGACT AATAAGAAGA    240
CGACCTTCTT TGGTGGCAAT TCTATCTCTA TGATTGATTA CCTCATCTGG CCCTGGTTTG    300
AACGGCTGGA AGCAATGAAG TTAAATGAGT GTGTAGACCA CACTCCAAAA CTGAAACTGT    360
GGATGGCAGC CATGAAGGAA GATCCACAG TCTCAGCCCT GCTTACTAGT GAGAAAGACT    420
GGCAAGGTTT CCTAGAGCTC TACTTACAGA ACAGCCCTGA GGTCTGTGAC TATGGGCTCT    480
GAAGGGGACA CTCGAG                    496
```

(2) INFORMATION FOR SEQ ID NO:1055:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 316 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055:

```
GAATTCGGCC TTCATGGCCT AATGTGCTTA ACCCTCAAGA AATTGTCACA ACTGAAAGAC    60
GGGAGCAAGC TGACACTGCA AGGAACACAT GATGCTTGG AATGGGTGGC CTGCGTATTC    120
AAACACATCA AAGCAGCAGT TACTTGAACA ATCGGAACCT CTTCAAATAC TGGCCCACTT    180
```

CTTCCTTGGG GTAGGGCCGG AGAGCAATAC AAGTGGCGAT ATTCTCTGGT TGCTCAAGCC	240
ACAGCATGTG GTCAATGTTC TTCTGTTGCA GGGTCTCGGC CAGCTCCTTT AGGGTGGTCT	300
CATCTGGGGC CTCGAG	316

## (2) INFORMATION FOR SEQ ID NO:1056:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056:

CGGGTTAAGG TAGCATCAGA ACCCTGGACG CGGAGTCAGG GCTGGCAGAT AGCAAGGCAT	60
CTCTCGGAGC GTTCTTGGGA GGCGCCATCT TGCCCCACTC CATGTTATCC AGCCACTCGT	120
CATCCCGCGG AGACAGAGGA GAGAGGAGAG CTCGCGGGGA AGCAGAATTC CCAACCGTTC	180
CATCCAACAA TGGAAATCGGT ATCAGGATGT GGTAGCTCC CTGTACCAGC GAGTGTACAG	240
TCAGAGACTG GCCAGTCCCC TTGTTACAAA CACTGTAGAA GAATGTGACA GCAGCTGCTG	300
TGGCCAGTAG ATTGTCTACC TGTAGTTGCA GAGAAGCCCA AGAGTTTGAT GATGAGGCAG	360
TTCTCTGAG	369

## (2) INFORMATION FOR SEQ ID NO:1057:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 540 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1057:

GAATTCGGCC TTCATGGCGT ATCTCATTCT GTCTCCCAGG CTGGAGTGCA GAGAAACAAT	60
CTTGGCTCCT GCAGCCTCAA CCTCCCAGGG TCAAGTGATC TTGTTGCCTC AGCTTCCCAT	120
ACAGCTGGAA GCACAGGTGC ATGCCACCAC ACTTGGCTAA TTTGTATTT TTTGTGGAGA	180
TAGGATCTCT CTATGTTGTC TAGGCTGGTC TTGAAACTCC CTGACCCCGT GATCCACCTG	240
CCTCGGCCTC CCGAAGTACT GGGATTATAC GCATGAGCCA CCGTGCCCAG CCGTCATTCT	300
TATATTATTA TTTCTAGGT GTCTCTCCTG AAGACTATCT TCTGGTCTCG AAATGGACAT	360
GATGGATCCA CGGATGTACA GCAGAGAGCC TGGAGGTCCA ACCGCCGTAG ACAGGAAGGT	420
ATGGCTCTGT TGGAAATCCGC ATAGTGTGGA AATGAGTTTG CCCTGGAAAG GGAAAGAACA	480
GCTTCTTGCC CTCAGGTTTC TCACCTTCTC CTCTCCTCAC TCTCACCAG GACCCCTCGAG	540

## (2) INFORMATION FOR SEQ ID NO:1058:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1058:

GAATTCGGCC TTTATGCNAN NTTCTTTCA AAAAAAAAAA AGAAAAGAAA TTGCAAAAGT	60
--	----

TCTTCTAAAG	TAAATCCAA	GGTGGTTTGT	CTAGCAGAGA	GCCAGGAATT	CTTCTAATA	120
GTGGGCAGAG	CCCAGAGACA	AGGGGAAGAA	AGATGACCTT	CTCCCCAGTC	CTTCCCAGCA	180
CCATTTTGT	TTCACACCAG	GCTTGTGGCA	TTTTGGTGCT	CACAGGGGTT	TTGCCTTCTG	240
ACCTCTCCTT	GGAGTAGGCC	ATTCTCATGC	AGGGCTCACC	CTGAGGCAGG	AGGACCAAGG	300
GCTCCCTGCG	TCCACGGACC	ACGTATGCCT	TGGTGTCCAC	TCCCATCGGG	GCTATCAGTT	360
CTGCACTGTG	CCCTGGTGCG	GATTTTAATG	CATATTTTTA	TATATAAATG	TTCCCAAAGG	420
CCGTCTCGAG						430

## (2) INFORMATION FOR SEQ ID NO:1059:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1059:

GAATTCGGCC	TTCATGGCCT	AACATTAAGG	AAAAAGCCTT	AATGGCCATG	AATAACCTGA	60
GTGAGAATTA	TGAAAATCAG	GGCCGGCTTC	AGGTGTACAT	GAATAAAGTG	ATGGATGATA	120
TCATGGCCTC	TAACTGAAC	TCAGCAGTTC	AAGTAGTTGG	ACTAAAATT	CTAACAAACA	180
TGACTATTAC	TAATGACTAC	CAACACCTGC	TTGTCAATTC	CATTGCAAAC	TTTTTCCGTT	240
TGCTATCTCA	GGGAGGTGGA	AAAATCAAGG	TTGAGATTTT	GAAAATCCTT	TCGAATTTTG	300
CTGAAAATCC	AGATATGTTG	AAGAACTTC	TCAGTACCCA	AGTGCCAGCA	TCATTTAGTT	360
CCCTCTATAA	TTCTTACGTG	GAATCAGAAA	TCCTTATTAA	TGCCCTTACT	CTATTGAGA	420
TTATCTATGA	CAATCTCAGA	GCAGAAGTGG	CCTCGAG			457

## (2) INFORMATION FOR SEQ ID NO:1060:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060:

GAATTCGGCC	TTCATGGCCT	ACAACCCCGC	GATAACCACT	GCCGAATGCC	TGAAGGCGCT	60
TGAGCACGTG	TTTGGGAGCG	TTGAGAGCTC	TACGGATGCC	CCGATCAAAT	TTCTGAACAC	120
TTATCAGAAC	CCGGGAGAAA	AATTGTCTGC	TTATGTCATT	CGTCTGGAGC	CTCTGTACAC	180
GAAGGTGGTA	GAGAAGGGGG	CCATTGATAA	AGATAATGTG	AACCAGGCCC	GCCTAGAGCA	240
GGTCATTGCC	GGGGCCAACC	ACAGCGGGGC	CATCCGAAGG	CAGCTGTGGC	TTACCGGGGC	300
TGGGGAAGGG	CCAGCCCCAA	ACCTCTTTCA	GTGCTGGTG	CAGATCCGTG	AGGAGGAACC	360
CAAGGAGGAG	GAGGAGGAGG	CTGAGCCAC	CCTTCTGCAG	TTCGGCCTGG	AAGGGCACTT	420
CTGAGTGCCA	GGAAAGGCAG	CTTTAGTGCA	GACCTAGATC	ACAGCTACCT	CGAG	474

## (2) INFORMATION FOR SEQ ID NO:1061:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1061:

GAATTCGGCC TTCATGGCCT ACCAGCCTCT GTTAGATATG TCCAGAGATG GAAACTCACT	60
CCCCTACAAA AGATGGAGCT TAATGGAGAA ATTGCAACTT TCATTAACAAA ACAAATTCAG	120
ATGAAATATC AGTAACTGTC TTGGACAGTG CTGAAATCAG GTGGTTAAAC GGGTAAACAA	180
AATATACTGT ATTTTGAGAA ATGGCACAAA AACAGGCAGT CATCTTTAAT GGCTATGCCT	240
AGGCAAACTA CTAACATGCA TTGTGAGAAT GCCGTGTATA CCTCACGTAC TGTGTACTTT	300
GTACATATAT TTTACCTTTT ATACCTATGT TCGATTTTGT TTTGTTTTGT CCTGGCGTCC	360
TCGAG	365

## (2) INFORMATION FOR SEQ ID NO:1062:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 434 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062:

GAATTCGGCC TTCATGGCCT AGGAGCCGCA GGGCCGTAGG CAGCCATGGC GCCCAGCCGG	60
AATGGCATGG TCTTGAAGCC CCGCGTCGGG TCCCATCCGG CCCATCGTGC GCTGCCCCAC	120
GGTTCGGTAC CACACGAAGG TGC GCGCCGG CCGCGGCTTC AGCCTGGAGG AGCTCAGGGT	180
GGCCGGCATT CACAAGAAGG TGGCCCGGAC CATCGGCATT TCTGTGGATC CGAGGAGGCG	240
GAACAAGTCC ACGGAGTCCC TGCAGGCCAA CGTGACGCGG CTGAAGGAGT ACCGCTCCAA	300
ACTCATCTTC TTCCCCAGGA AGCCCTCGGC CCCCAAGAAG GGAGACAGTT CTGCTGAAGA	360
ACTGAACTG GCCACCCAGC TGACCGGACC GGTTCATGCC GTCCGGAACG TCTATAAGAA	420
GGAGAAAGCT CGAG	434

## (2) INFORMATION FOR SEQ ID NO:1063:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 429 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063:

GAATTCGGCC TTCATGGCCT ACTTAATTTT AGAGCCGGGT TCGCCGTCGG ATCAACCTCC	60
AGGAGCTAGC AGCGGGCGCG GACCGGGCAG TTTCCGCGCT CAGCACAGGC AGCTCGCGGT	120
CATGGGCGGC TCAGCCTCCA GCCAGCTGGA CGAGGGCAAG TGCGCTTACA TCCGAGGGAA	180
AACTGAGGCT GCCATCAAAA ACTTCAGTCC CTACTACAGT CGTCAGTACT CTGTGGCTTT	240
CTGCAATCAC GTGCGCACTG AAGTAGAACA GCAAAGAGAT TTAACGTCAC AGTTTTTGAA	300
GACCAAGCCA CCATTGGCGC CTGGAATAT TTTGTATGAA GCAGAGCTAT CACAATTTTC	360
TGAAGACATA AAGAAGTGGA AGGAGAGATA CGTTGTAGTT AAAAATGATT ATGCTGGGGA	420
GAGCTCGAG	429

## (2) INFORMATION FOR SEQ ID NO:1064:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064:

GAATTCGGCC TTCATGGCTT AGTCTTGGTC ATGCCTGGGG AGCTCAGAAC GCCCCGGCTT	60
GGGCCCCAGG CCCATGGACT CCCTTCCCA TTCTGCCCTC CCATATTCCTT CTTTTTGGT	120
CCCAGACACC AGCACAAAGA AAGGAGGGTT CACAGAGGAA GGCCAGGGCA GAGCCTGGCC	180
CCAGGGAGGG GATGAGGACA TTTCCGGTCC AGGTAGCTGC CGGCTGCTCT GGGAGGAAGA	240
GCCATGCGTC TGTAACTGC TGGGGCTGGC GGCCCGCCCC ACTGCAGGGC CCAGCCTTGA	300
CCCCTGCACG TGGCCATCCA GCTGCCCTCT GGCTGCCCCT GGCCTTGGCA CAGGCATCGA	360
GCCTCGAG	368

(2) INFORMATION FOR SEQ ID NO:1065:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1065:

GAATTCGGCC TTCATGGCCT AAGATGGTTG CCAAGCAAGG AAAACTTATT TTATATTTTT	60
ATACTGTATC CAGGCTATGC CTGGGTGTGG AGGGCTTACT CGAG	104

(2) INFORMATION FOR SEQ ID NO:1066:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 0 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066:

(2) INFORMATION FOR SEQ ID NO:1067:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067:

GAATTCCTGG CCTTTGGGAA CTCATATCCT GACCTCAGAT TGAGAAGACC ATCTGTCAAG	60
GCAATATTAGT AATCACCTCC GGTAGAAAAG ATTTCACGGG TAACAAGTAG GCCATGAAGG	120
TCGAG	125

(2) INFORMATION FOR SEQ ID NO:1068:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068:

```

GAATTCGGCC AAAGAGGCCT AAGTTCAAAT AATTCAGAA TGGTGTCTGT TAGGAATGGT      60
CCAGAGGTTG GTTGGGGGAT GAAAGGAGGA CAGGACTAC AAGGGATATT GCAAATGACT      120
GCCTTAAAT ACCAACATAA AGCAGTGGAT TCCCAGAGTC CTCCAATCTG TTATCAGACA      180
CAAAGATTTG AACAAAAATA AATGAAAGAT AGAAATCAAA AGGTTTCTT TGAAGTCTCA      240
GGGTATTGTT CTTCTGAAAG CAAATGTGTT GTTCTTGCCT CATAGCAAAG TACTTTTCCT      300
ATTGATGCAT CACTTTATTG CTTTCTGTC TTCTCTCGAG      340

```

## (2) INFORMATION FOR SEQ ID NO:1069:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 432 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069:

```

GAATTCGGCC AAAGAGGCCT AGACGGGACC TGTTCGAGA CAAGATGCAA GGAACACAGC      60
CTGCAGTGAT TCACAGCTTT GTTCAACCC ACAAAACCAGA AAATTAGCTC TTGGGTCTGT      120
GGGCCCAAAG TGAACCTTAA AGCAATAAAG ACTGGAAGCA GGTCTGGGAA GGCAATACAA      180
AATGTGGAGA GTTGAAGAGG AGGCAGAGCT GGCAGGAATG GGTAGGGAGA GTGTTTGSTA      240
AATAGCACCT TTGAGTCAAA ATTGAGCAGT TTAGAAATCC AGGAAAGGGG ACTGGCTGTG      300
GGGAGGAGAA CCTGGGGGTA GAGGAAGTGG GGTGAAGATT CCTCACTAAG GGGCAACAGC      360
AGGAGGGTGG CCATCCTGGC CAAATGCCCT AGCCCTGTCC TTCTTAAGGT GATTCGGTTT      420
GGGAAACTCG AG      432

```

## (2) INFORMATION FOR SEQ ID NO:1070:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1070:

```

GAATTCGGCC AAAGAGGCCT ATTCTAGACC TGCACAAGCA CGCTGAGGAG AAATTCATTG      60
AATTTGAAGA CTCTCAAGAA CAGGAAAAAA AGGACTTACA GACCCGAGTG GAATCTTTAG      120
AATCTCAAAC AAGACAACCT GAGCTGAAAG CGAAAACTA TGCTGACCAG ATTAGCAGAC      180
TTGAAGAAAG AGAAGCAGAA CTGAAGAAGG AATATAATGC ATTACATCAA AGACACACTG      240
AGATGATCCA TAATTATATG GAACATTTAG AAAGAACAAA ACTTCATCAG CTCTCAGGGA      300
GTGATCAACT AGAATCCACA GCTCATAGTA GAATTAGAAA AGAACGCCCT CGAG      354

```

## (2) INFORMATION FOR SEQ ID NO:1071:



## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 387 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1071:

```

GAATTCGGCC AAAGAGGCCT ATTCTGTCTT ATCAAAGGAA GTAAAGAAGT AAAAACAAAA    60
AATGAACGTA TACAAGCACA GATTTTGTAG CTTCGATTGT AGAGAAATGG TAGTTATGTG    120
GCTTGCCAAG AAAGTGCATC ACCTACTTCT GCTTCTGGGG ACAGAGGTGA AGGGGTCTGT    180
TCTGGAACCT TCTAAGGAGG CCATCTTCGT TATTACATCA GGAAGTTTC TAGTCAAAAT    240
GTTATTCCTG TCTACAGGGA AAAACAAAAG CAAAACACAA AAGAACACTG CTTCTAATGG    300
CATCATAGCA AGGAGTTTAT CTAGAAAGAT GATGCCAGCA GTCACCTCTT TTCCAGGAAG    360
ACAGAAACAA AAACCGTTCT CCTCGAG                                     387

```

## (2) INFORMATION FOR SEQ ID NO:1072:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1072:

```

GAATTCGGCC AAAGAGGCCT AGAAGTGCC AAGAGGGAAA AAAGGCACTC TGAGAAGTTA    60
CGGCAAAGAA TTGGGAAAGT TGTCAAAACA AACAAACAAA AAATAATAGA TTGTTTTAG    120
CAAACGACTT GGCTAAAAGT TACAAACCTA ATATATGTAA TACACAAGAC TACTTCATCA    180
TCTTCTTTC TGACAGTCTC ATGTTCTTTT TCAAGCCAAA AAGGGACATA TTCTTATAGC    240
TGGAAGTTTA AGGGAAGAC TTCCAACCTA ACTCTGTGTT GAGGGTGCAA ATCATGTGAT    300
GAAGGCTCGA G                                     311

```

## (2) INFORMATION FOR SEQ ID NO:1073:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1073:

```

GAATTCGGCC AAAGAGGCCT ACGAAGAAAA AATATTTTGT AGAGAATTC CCAGATTGAA    60
AGAAGATCTG AAAGGGAACA TTGACAAGCT CCGTGCCCTC GCAGACGATA TTGACAAAAC    120
CCACAAGAAA TTCACCAAGG CTAACATGGT GGCCACCTCT ACTGCTGTCA TCTCTGGAGT    180
GATGAGCCTC CTGGGTTTAG CCCTTGCCCC AGCAACAGGA GGAGGAAGCC TGCTGCTCTC    240
CACCGCTGGT CAAGGTTTGG CAACAGCAGC TGGGGTCACC AGCATCGTGA GTGGTACGTT    300
GGAACGCTCC AAAAATAAAG AAGCCCAAGC ACGGGCGGAA GACATACTGC CCCCCATGAC    360
CCTCGAG                                     367

```

## (2) INFORMATION FOR SEQ ID NO:1074:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1074:

```

GCTTTATCTA TTTCATTTAA TCTAAATGTT TTCTGCAATT GTTTTTCCTT TAAACTTTGC      60
TTCAAAAACCT CTTCATCTAC TTGAGATCTG GGCATTGTGG TTTTGTGTCT CGCATTTTCC      120
CTGCCTTCTG ATGGCTTAGC AGGGGACCCT TTCTTCTTTG GCTGGTGGGG CTCTCTGGA      180
TCAGTAATGT CCACATGCGG CTTCTGCAGC AAGGTTTTCT CTTTGTCTGA TACTGTAACT      240
CGGGGGGCTC TGTTCCTAAA GGAATGAGAG GCCTCTGGTT TTCGAAGCCC CCCTCTGCCT      300
TTGCTCACCA CTCGAG                                     316

```

## (2) INFORMATION FOR SEQ ID NO:1075:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 435 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1075:

```

GAATTCGGCC AAAGAGGCNT AGAACTCGGA GACCAGAAAG TGAACCTCTG GGCAGAGATG      60
GNCCTGCAGA GCCAGGTGTG GTCTCTGGCC ACACCCATGC CCATGGCGGA GAGCTCCNTC      120
TACCGGCAGC GGCTAGAAGT CATCGCTGTA AGTGACGCCC TCCC CGCGCC CTGGGCACCC      180
CCAAACTTTC CACCATGCTC CCTTCTCGTC TCTCCGTCAT CTCTGCGGAG AGCGCCCTCA      240
GCTCCAGCCC CGCCAGGGC TCCCCACACC AATTCTCCAG CCCCCTCTGC CCCCAGTTC      300
CTGTCTGTC ACTACCACCC TCAGAATGGG GAGCTGTGGC CCCCACACTT CCAGAGCCTG      360
CATCGGCTAT GCCTCATTCC TGAACCCAG CCTCCCAAAA ACCCATGCCC TGAGCCGCAT      420
CTCCCGGACC TCGAG                                     435

```

## (2) INFORMATION FOR SEQ ID NO:1076:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076:

```

GGAATTCGGC CAAAGAGGCC TAGTGGGAAA AGCTTGGATT ATCAAAACAC ACAACAAATG      60
ATAGAACCAA ATATATAGAT GATACAGTGA AGCACAAGGT CAAAATTTTA AAACGGGTGA      120
GCTCTTCATT AATGCATTAT TTTGTTTATT TAAGAGCTTT TTGTATGGAC TGACTGCAAT      180
AATTTTGAAA TTTCTCTTTA GAAGTTTAA TGTCTTTTIA CATTTTCAAA TTTAGTTTTC      240
CATGAAAGTG AATAGGTTTT TATTTAAAT TTTTGTCTAG TCTTGGTGAA ATCAGATGGT      300
GACTCTCGAG                                     310

```

## (2) INFORMATION FOR SEQ ID NO:1077:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 396 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077:

GAATTCGGCC AAAGAGGCCT AGGAAAACAA ATGGCTTCTT CAAGTCCTTG ATTTTGGAT	60
ACACAGGATG CAGGGCTGTG TGTAAGGAAA GGCAGCGTTT TCCTCTCTTA GAGCCTCTGA	120
CTGACCTGAG GCGCAGGTGT TCCTGGGAGA CTGGAGGGTG GGCTCCATGG GGGTGTCTGG	180
GCCCCACCTG GCAGGGCTCT TGGCAGTGAG CCAGTGGAGG TTGCCTCCCA CGTGTGGCTG	240
GCCCTGTAGC CTGGCTCTGG AGAACCTGCA ATTCAGGCTG GAAGAGACTT TGGAGCAGCT	300
GGAGTGTGAG GTCTGCCTGG GTCTGGTGGG GAGTGTTTT ACTTTGCCAG TGATAGACTG	360
AAATGCCCTC TTTGAGGACA AGGTGGCTAT CTCGAG	396

(2) INFORMATION FOR SEQ ID NO:1078:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 313 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:

AGTGTTTTCC TGTATTTTCC CATATTCTTT GAAACTCTGC TGAAAGGAGG CTGTCAGTCA	60
GGGTTGTATA AATAGAGTCC TGGGTAAATC CTTGAAGCTT GTCATTCCAC AGCAAATCCA	120
CATGTTTCTT CAATGGCTGT TAGCAGCTTT TCATATAGCT TTTCATAGCT TTCATAGGGT	180
GGAATGTCTA TTCGATTGAA GCAAGTGTGG GCTTTCGGCA GGTGTGTTAGT GCAGGCATCA	240
ATCTGGTGTA TGGTAAAGAG TCTCGGCCT GCAGCACCTT GCAATGCTTT GAAGCCCTGC	300
AGAGGCATC GAG	313

(2) INFORMATION FOR SEQ ID NO:1079:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 354 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079:

GAATTCGGCC TTCATGGCCT AAAAATGAAC TATAATAGTT CTAATTTACC TCAAGTTTTT	60
CTAAGATAGC AAATAAATTG TAGTGTCACT TTAGCTTCCT AAGTAAGGCA AATTGACCTG	120
CAATAAAAGG TTCTAGTGTG AGACAAATTA AACCTTCAAC TTCCAACCTC GATTTCTAAT	180
ATAATTCAAA TTGTCACTGA AGCTTTTATT AAGAATAAAA ATATATTTAG TCTTTATTAT	240
TTTCTGTAAG TGAATTATTT TCAGATGCAC AATCGTGAAA TAATGAAGAT TTTGATCAGT	300
GTGTTTTGTC TTTTCCTTTT GAAAGGTATT TTCGCAAGAC CATTAAACT CGAG	354

(2) INFORMATION FOR SEQ ID NO:1080:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 641 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080:

```
GAATTCGGCC TTCATGGCCT ACTCCGGTGG CTCCCCATC TCTCAGGCGC GATGGCTACG      60
GGCGCGGATG TACGGGACAT TCTAGAATC GGGGGTCCAG AAGGGGATGC AGCCTCTGGG      120
ACCATCAGCA AGAAGGACAT TATCAACCCG GACAAGGAAA AATCCAAGAA GTCCTCTGAG      180
ACACTGACTT TCAAGAGGCC CGAGGGCATG CACCGGGAAG TCTATGCCTT GCTCTACTCT      240
GACAAGAAGG ATGCACCCCC ACTGCTACCC AGTGACACTG GCCAGGGATA CCGTACAGTG      300
AAGGCCAAGT TGGGCTCCAA GAAGGTGCGG CCTTGGAAGT GGATGCCATT CACCAACCCG      360
GCCCCGAAGG ACGGAGCAAT GTTCTTCCAC TGGCGACGTG CAGCGGAGGA GGGCAAGGAC      420
TACCCCTTTG CCAGGTTCAA TAAGACTGTG CAGGTGCCTG TGTACTCGGA GCAGGAGTAC      480
CAGCTTTATC TCCACGATGA TGCTTGGACT AAGGCAGAAA CTGACCACCT CTTTGACCTC      540
AGCCGCCGCT TTGACCTGCG TTTTGTGTT ATCCATGACC GGTATGACCA CCAGCAGTTC      600
AAGAAGCGTT CTGTGAAGA CCTGAAGGAG CACTGCTCGA G                                641
```

(2) INFORMATION FOR SEQ ID NO:1081:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 415 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081:

```
GAATTCGGCC TTCATGGCCT AGCCCTTTTT GGTTCCTAA TTAGGAATAT AGCATCTGCA      60
AATAATGACA GATTGTTTCT TCTTTCTAA TCCTTACAAC TTTGTACT TTTTCTTGTC      120
TAATATGCTG CCTAGAACTG TAGAGCTTCC TGCTCTGTT CCTCCCTTT TTTTATTCTT      180
ATTTTATAGGA GCAACCCTAT TAACTAAGCC TCACTCTTAA AGGGGAAGTT TTCACCACTA      240
ACTACCTTTC TAATCTAGGT TTTTGTGGA TACCTTTTAT CAGACTAATG AAGTTTAATA      300
TTGTTAAATA CTTTGAATTG TCTATATTAT GATGATAGTA TGCTTTTTTC TTTTATTTAT      360
TAAAATGGTC CCAGGAATTT GTGAACAGCT TGGGCAATAC AGTGTGACGC TCGAG          415
```

(2) INFORMATION FOR SEQ ID NO:1082:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 496 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082:

```
GAATTCGGCC TTCATGGATC CTGATACCAA ACTCATCGGA AACATGGCAC TGTTGCCTAT      60
CAGAAGTCAA TTCAAAGGAC CTGCCCCCAG AGAGACAAA GATACAGATA TTGTGGATGA      120
AGCCATCTAT TACTTCAAGG CCAATGTCTT CTTCAAAAAC TATGAAATTA AGAATGAAGC      180
TGATAGGACC TTGATATATA TAACTCTCTA CATTTCTGAA TGTCTGAAGA AACTGCAAAA      240
GTGCAATTCC AAAAGCCAAG GTGAGAAAAG AATGTATACG CTGGGAATCA CTAATTTTCC      300
CATTCCTGGA GAGCCTGGTT TTCCACTTAA CGCAATTTAT GCCAAACCTG CAAACAAACA      360
```

GGAAGATGAA GTGATGAGAG CCTATTTACA ACAGCTAAGG CAAGAGACTG GACTGAGACT	420
TTGTGAGAAA GTTTTCGACC CTCAGAATGA TAAACCCAGC AAGTGGTGA CTTGCTTTGT	480
GAAGAGACTA CTCGAG	496

## (2) INFORMATION FOR SEQ ID NO:1083:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 342 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083:

GAATTCGGCC TTCATGGCCT ATTCACAGGT TTATTGGCTT CTTCCTGAAA TGCCTGTTCA	60
TGTCTTTTGG CCACTTTTTA TATGGGTCAT TTGTCCCTTA TTGATTTATA AGGGTTCTTT	120
ATTTTTTCC TAGATATTAA TAGTTTGGC CAGATGTTG CAGATGTCTT TTCTCAATAT	180
GGCTTGCTTT TTCAAGTTTG GTGTCTTGAT GATCAGAAGA AGTCTTCAT GTAGTTGATT	240
TATTGACCTT TTCCATTATG GTTTCACTC TTTGACTCTA GGAGCTTAAT AAAAGCATGA	300
AATATTTATT GATTGTCCAT TGCTAATCCG AAAACCTCG AG	342

## (2) INFORMATION FOR SEQ ID NO:1084:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 374 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084:

GAATTCGGCC TTCATGGCCT AACTTACTGA ATGATAAAAC TTGCAGCTAA ATTTGTCTTC	60
AACACACCTT TCTCAGAGCA TCAATTACAT TATTCATTAA GGAATAAATA GCATCTCTAA	120
AGCATGTATC AACATCAGAA CTAAGCTTTA TGAATTATAC AGTGCATCTA GTGATTCCTT	180
ATTCTAAAAG ATCTCTGGTG CCATCTACTG AATGCTTTT AAAGGAAAAA ACATGAAATC	240
AAATAATAGA TTTTCACTTA ATTCAATTTT TTGTTTGTG TTAATTTTCA ATTACTAGAC	300
AGATCTAGGT TTATAAAGA ACTAACAGG AAGTACAGAA TTCCCATATA ATCACTTTTC	360
CCCCAAGACT CGAG	374

## (2) INFORMATION FOR SEQ ID NO:1085:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 343 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085:

GAATTCGGCC TTCATGGCCT ACTGGAACAC CTTCTCGCTG CCGCCATACC CTGCCTTCTC	60
CAGCGACAGC CGCCCGTTCA TGAGCTCCGC CTCCTTCCTC GGCAGCCAGC CCTGCCCAGA	120
CACCAGCTAT GCCCCGTGG CCACCGCCTC CAGCTTGCCA CCAAAGACCT GCGACTTTC	180
TCAGGACTCC TCCTATTTTG AGGACTTCTC CAACATCTCC ATCTTCTCCT CGTCCGTGGA	240

CTCCCTGTCG GACATCGTGG ACACGCCCGA CTTCTGCGG GCTGACAGCC TCAACCAGGT 300  
GTCCACCATC TGGGACGATA ACCCTGCCCC CTCCAACCTC GAG 343

(2) INFORMATION FOR SEQ ID NO:1086:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 531 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086:

GAATTCGGCC TTCATGGCCT AGGGCTGACG CGCCACTATG TAGCGGGTTT CGGGCGGGCC 60  
ACGCGTGCGG GACAGGAACC CAACCCAGC CGACCTTGAG CTCCAGGAGT TCGTCTCTTA 120  
CGTCTGCGGA AGTGCAGCTG CCTCAGTTCT TAGCGCAGGT TGACAACTAC AGGCACAAGC 180  
CATTGAAGCT GGAATGTCCT GTTGCTGGTA TTTCAATTGA CTTAAGCCAA CTATCCCTTC 240  
AGTTACAATA GGAAAGTGCC TCTAATAAGG CCAAATATGC GTACTAACTT GTAGCAACCA 300  
CGTGTCCGTG CAGTGCCACA GGAGCTAGAG CAGTGACAAT GCTGGTGGCA ACAGGGCAGT 360  
GTAGCAGGTG CTTCATGTTC ACCTTTTCAA CCTTTTCATT TAATTGTCAC AACTCGGAGG 420  
TGGATTCTGT TAGGGACAGG CTGCCCCAGG ACCACTCCGC CCCCCTAAC TCAATGCAGC 480  
TGACCCTTAC CCTGAATACT CTGCAGCTGC ATTCTGAAAC CATATCTCGA G 531

(2) INFORMATION FOR SEQ ID NO:1087:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087:

GAATTCGGCC TTCATGGCCT ATGACTAGCC ACCAGGAAGG ACATTCCCTG CTCAGCTGTC 60  
CCATTAACTG CACCTGCTCC TCTCCTCCAC GTTAGTTTTT TTCTAGCCTG TTTATTCTTC 120  
CCTGTAAGAG AAAAAGAGAA AAGCCTATTT CTATCTGATC TTTGAGATGC TTGCAGATCT 180  
TACCTTTGAA GCATTCTCCT TATTGCAATA GTCTCCCTGA CCCTATTGCA ATAGTTCCTC 240  
TCTCCCTGTT TGTATTCAAC CATTGAGCT GCTATATATA GCAAAATACC ATAAGCTGAT 300  
AGCTTATAGA CAATATAAAT TTAATTCCCA CAGTTCTGAA GCCCCGGAAG TCAAAGATCA 360  
AAGTAGGCCA TGAA 374

(2) INFORMATION FOR SEQ ID NO:1088:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:

GAATTCGGCC TTCATGGCCT AGGAATGTTT CCTTTTGGTT CATTGTAGGC ACATCTGAAA 60  
AAGAAGTTAT GAGTCACTCG TAGTGAGGTT TTAATTGACC TGTGACTTGG GATCTCTGGG 120

GATCATTGGC AGTCTGTCTT AACTGTATT TTATAATTCA TGTCTGATCA TCTTCTTAAG	180
GAAGTCTGCA TCGTTTGCCT TATGTAGAGC ATTAAACACA AGGATCTGNC ACATTACTTC	240
TGTTGCCATT TTTGCTTCTC ATATCCCTGA CCACCCACCA CACTCGAG	288

## (2) INFORMATION FOR SEQ ID NO:1089:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089:

GAATTCGGCC TTCATGGCCT AAGTAGTTAA ACTCATAGAG TTGCAAAC TA GAAAGGTGGC	60
CCCCAGGGGT GGGCAAGAGA GAGGAGTGGA GAGCTTGGTG AATGGGTGCC ATTTCCATTT	120
TGAAAGATAA AACTGTTCCT GAGACGATGA CGGTGATGGT TGCTAAACAA TGTGAACGTA	180
CTTAATGTCA TGAAACTGTA AACTGAAAAA CAGTGGAAAT TGTAATGTT TATACTGGCC	240
ATTCTATATG AACTAATATA TATTATAAT TTTAATATT TATACATGGT ATATTTTCCC	300
ACAATAAAGA TGAAATTAAG AGCAGTTGGT CTCGAG	336

## (2) INFORMATION FOR SEQ ID NO:1090:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 559 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090:

GAATTCGGCC TTCATGCCTA CAGAGGCGAA AGGAGAGTCC AGTGAGAAAC CAGCCATTGT	60
CTTCATGTAC AGGTGCGACC CTGCTCAAGG CCAGCTCAGT GTGGATCAGA GCAAGGCTAG	120
GACAGACCAG GCAGCAGTCA TGGAGAAGGG TAGAGCAGAG AATGCATTAC TACAGGACTC	180
AGAGAAGAAG AGGAGTCATT CTCTCCATC ACAGATTCCT AAAAAGATT TCAGTCACAT	240
GACCCATGAA GTAACAGAGG ATTTTCTCC TCGGGATCCA AGAACTGTTG TTGGGAAGCA	300
AGATGGCAAG GGCTGCACTT CAGTCACAAC AGCATTGTCC CTACCTGAAC TGGAAAGGGA	360
AGATGGAAAA GAAGACATTT CAGATCCTAT GGACCCGAAC CCTTGTAGTG CAACATACAG	420
CAACTTAGGG CAATCTAGAG CAGCCATGAT ACCTCCCAAG CAGCCACGAC AGCCCAAGGG	480
AGCTGTGGAC GATGCCATCG CCTTTGAGG GAAACAGAC CAAGAAGCAC CCAATGCTTC	540
CCAACCTACA CCACTCGAG	559

## (2) INFORMATION FOR SEQ ID NO:1091:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091:

GAATTCGGCC TTCATGGCCT ATTCTTATGT GTGTTTCAGG ACGACTGGGT TTGGATTACG	60
---	----

```

AAGAGGATTA TTATACACCA CAAAAGGTAA AATCAGAAGC AACTTATTTT TAAAACCTAT      120
CTTAAGTCGC ACAGACTCCA TAATATGTCC TCTTTCCTTG GCTCTGTTGT ATCAAGGTGT      180
TTATTTCCGA AGTGTTCCTT GTTTGGGAGA CTGACAATT T AGGATTCCTG ATTTAGCACC      240
CTGTGGTCTT GTCATCTGAC CAAATCACAG AAAATTGAGA AAGTGGATAC AGCGACTGTG      300
GACATTGTGA AGTCACATCT TACTCAGGGA TGACAGCTAA AATCAGCGTG TACAGCAGAA      360
AAGTCACATA TAGCTACAAA TACCCTGGAA AACTCGAG      398

```

## (2) INFORMATION FOR SEQ ID NO:1092:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 436 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092:

```

GAATTCGGCC TTCATGGCCT ACGAGTTTTC TGCAAGTCAG CCATGAAGTC TATGCTCTGC      60
TTCAGGCTCT GAATTCTTTC CTGGCTAAGA ATTTTCATT C TGAGTGCAA CAGCTTCTTT      120
GCAGCTTTAT AATAAATGGT CTCTGGTTTA TTGTAAATCA TGGCATTAGT ACACATTAGT      180
TTGAAGTTAT CCTTTAGTTC TTCTATGGAC TGATAGTCAT TGTTCTTGAT CTTTCTTTTC      240
ATGGTACTAA AATCCATTGG GTGTTTAATG ATCATGGAGT AGCCAGGAGC AATAAAATCA      300
GTCACAGGAA ATGAAAAGAA AGCACTTGGG TCTTTTCTCT GCAATTGTCT CATCAGTTGA      360
TTCAAAGCTT CTTGAAGGGG TGTCTGTTCT ACTTCTTCTT GTTTGGCTAA AGAGCTTGTG      420
AGAGGCTTCG CTCGAG      436

```

## (2) INFORMATION FOR SEQ ID NO:1093:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093:

```

GGGGCAGGGA GCCTGGCCAG GCCTGAGACA CAGAGGCCCA CTGCGAGGGG GACAGTGGCG      60
GTGGGACTGA CCTGCTGACA GTCACCTCC TTCTGCTGGG ATGAGGTCCA GGAGCCAAC T      120
AAAACAATGG CAGAGGAGAC ATCTCTGGTG TTCCACCAC CCTAGATGAA AATCCACAGC      180
ACAGACCTCT ACCGTGTTTC TCTTCCATCC CTAAACCACT TCCTTAAAT GTTTGGATT T      240
GCAAGCCAAT TTGGGGCCTG TGGAGCCTGG GGTTGGATAG GGCCATGGCT GGTCCCCAC      300
CATACCTCCC CTCACATCA CTGACACAGC TGAGCTTGTT ATCCATCTCC CCAAACTTT C      360
TCTTTCTTTG TACTTCTTGT CATCCTCGAG      390

```

## (2) INFORMATION FOR SEQ ID NO:1094:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 559 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094:



AATTCGGCCT	TCATGGCCTA	GAGGGATTG	TTAACCAGTG	CCACCATGTA	GTTCTGGA	60
CGGAGGATGC	GGTGGTAGAT	GTCCAGTTCT	GTCAGCTCAC	GTTTGTGGAT	GCAGATCTGG	120
TGCTCCTTCT	GCGTCTGCAC	GATCCGGGCC	TGCACCTCTT	GCCACGTGCA	ATACGGAAGG	180
GCAGACATAG	GGATGCGCAG	AGCGTGCAGG	TAGAAGGAGT	GGATCTCCCA	GTAGCAGCAA	240
ATGTTATAGA	TGAACCTGAT	AAGCCGGTGG	ATCCAGAAGA	CACCAGCAAT	GACCAGGATG	300
GTGATAAGGG	AGCCATTTTC	CTGAATCCTG	GCACTACAGA	CTTGAGCAGG	CAAAAAGGCG	360
TCTGGCAGAG	TGACCTTGAC	GGGTTCAGTA	GGGTGAAGAC	TGTGGTTCAC	CATCTTGTG	420
GCAAATAGGA	TGTCATAGTC	CACGCAGCTG	ACCAGGAAGG	TAGTGAAGGC	AACCACAAAG	480
AGGAAGTGCA	TGAGCTCAA	GATCTCCCCG	ATGAGCATAC	ATGTGAAGCC	ATTCTTCTGG	540
TGCAGATTAT	AAACTCGAG					559

## (2) INFORMATION FOR SEQ ID NO:1095:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 224 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095:

GAATTCGGCC	TTCATGGCCT	AGGTTTGGAA	AGTAAGACAT	ACTGGCTTCC	TTTATTCACA	60
TTAGCATTTT	CCTATTATTT	TGGAACCAAC	AATTCCATGT	TCATTGAATT	TCCTTTTTTT	120
TTTTTTTTTT	AAAGACTGCA	AATTTTGGCT	GGGCACAGTG	GCTTGACTCT	GTAATCCTAG	180
GTACTTAAGA	GGCTAAAGCA	TGAGGATCAC	TTGAGGGACT	CGAG		224

## (2) INFORMATION FOR SEQ ID NO:1096:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 534 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096:

GAATTCGGCC	TTCATGGCCT	AGTTCTCTCT	GATTGTTT	GTTCTGTCTC	AGGCTTCTGT	60
GGCAGGACTG	GCCCAGGGAG	GAGGAAGCCA	GCAGCACACC	TGGGGAATGG	GGTCCCGGCC	120
GGGAGGCTTG	GCCTCTGGGC	GACCTCGTCC	TGTTTTGTTT	GTTTGTTTGT	TTGTTTTTTT	180
AAAGGTAAAC	CTCCTGGGCC	GCAGATGGCA	AAGGGAGTGC	CTGGGCCTGG	TGACCCAGGG	240
CTGGATCCAC	CCCTGCGGAG	CCCTGGGCCA	GGCAGGTGTC	TGCTGCTCAC	CTGGCTCTGG	300
AGGGCTGCCC	TGCAGCTGGG	CCTGGGGACA	GGTCGGCTGT	GGGGCAGCTC	AGTACCCTCC	360
CTGAGGCTCA	CGGTGGCTCC	GAGCATGAGC	TCTGCCTCCT	GGGCAGAGACC	CAGCAGTGGA	420
CAGCACGGTC	CTCACACCCA	GCTCCCTGCA	CACCCAGGCC	AGCCACCCCT	CCCGCTCGTG	480
CACAGGCACG	CAGATGCGCT	CACACGTACA	CACACACAAA	TGCAACGCCT	CGAG	534

## (2) INFORMATION FOR SEQ ID NO:1097:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 606 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097:

GAATTCGGCC	TTCATGGCCT	ACTTTATTGG	TGGACATTAA	GAATGGAGGA	ATGTTTCAAC	60
AAAGGAACAA	TCAACAGTAT	CAAAATACTG	CAGAGGGGTC	AATTTGGGGA	CTAAGAGGGG	120
AGCCACTGGA	TTTGACAAC	AGGAGATAAA	TTTTAGTGCA	ACGATGAAGG	CAGAATCCAG	180
AGTATAATGA	GCTCAGTGAA	AAAAGGTGAA	NACATGTAGC	TTATTCTCTC	AAGAACTAG	240
GCTATGATAA	ACTGGCAGAG	GCTCTAAGAG	TGGGAGGTGA	GTTGTTTTCT	CCTTCATGTA	300
AATATATTTA	CCTTTTAAAC	ACTAGGCCCA	ATTTTATATC	CTATTTTATT	TAACTTTATG	360
AACATATTTA	TGTATGTATG	CATGTATGTA	TGTATCTCAT	GTGATGTTTT	AGACACTGAA	420
AAATAACTCA	TTTCTATTAT	AAAACGATA	TCTTTAGATG	TTTCAGAAGC	AACTTCCTAA	480
AAGGAGGTAG	CAGTAATGGA	GCTATGTCTA	TCATTCTTTC	CCATCAACCC	CCTTGATGGA	540
GATGTAAACA	TGTGTCCATC	AAGCCTTTAA	TTTTTACNTC	TTATCTTCAG	GGCTCTGCCG	600
CTCGAG						606

## (2) INFORMATION FOR SEQ ID NO:1098:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098:

GAATTCGGCC	TTCATGGCCT	AGCAGAACAT	GGATATTTTT	CCTTTAATAT	TTAGTACTTG	60
GGCTATCATG	AAACAAGGTT	AGCATAACCA	TCCAAAACCC	CAAGTGCTCC	AAAATCCAAA	120
ACTTTTTTAA	CACCAACACG	ATGCCCAAAG	TGGAAGATTC	CATACTTGAC	CTCATGTGAT	180
GGGTCTAAGT	CAAAATGTAG	GCAAACTTT	CACGCACAAA	ATTACTTAAA	ATATTCTACT	240
GAGCCAGGCA	TAGTGTTTCA	TGCCTATAAT	CCAGCACTT	TGGGAGGCTG	AGATGCCAAT	300
TGCTCGAG						308

## (2) INFORMATION FOR SEQ ID NO:1099:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099:

GAATTCGGCC	TTCATGGATG	ACCGCAGCAG	GCTGGTCAAG	CAGATGGAGG	ACAAGGTGTC	60
TCAACTGGAG	ATGGAAGTGG	AAGAAGAGAG	AAACAACCTCA	GATTTGCTGT	CTGAGAGGAT	120
CAGTAGGAGC	AGGGAACAGA	TGGAGCAGTT	GAGGAATGAG	CTACTTCAGG	AGAGAGCTGC	180
GAGACAAGAC	TTGGAGTGCG	ACAAGATTTC	CCTGGAGAGG	CAGAACAAGG	ACTTAAAGAG	240
CCGATTATC	CACCTGGAAG	GTTCCTACAG	GTCCAGCAAA	GAGGGGCTGG	TTGTGCAGAT	300
GGAGGCCAGG	ATCGCGGAGC	TGGAGGACCG	CCTGGAGAGT	GAGGAGAGGG	ATCGGGCCAA	360
TCTTCAGCTC	AGCAACCGGC	GGCTGGAGCG	GAAAGTGAAG	GAGCTGGTGA	TGCAGGTGGA	420
TGATGAGCAC	CTGTCAATTGA	CTGATCAGAA	GGACCAGCTG	AGCTTGCGTT	TGAAACCCCT	480
CGAG						484

## (2) INFORMATION FOR SEQ ID NO:1100:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100:

```
GCAGATTGAG GACCTCCAGA AATCTTTACA GGAACAAGGT TCCAAGTCTG AAGGCGAAAG      60
TTCCCAGCAA ATTAAAGCAG AAGTTGGAAG CTCATATGGA AAAACTCACA GAGGTCCATG      120
AAGAATTACA GAAGAAACAA GAACTCATTG AAGATCTTCA GCCAGATATA AATCAAAATG      180
TACAAAAGAT CAATGAACTT GAAGCTGCTC TTCAGAAGAA AGATGAAGAT ATGAAAGCAA      240
TGGAGGAAAG ATATAAAATG TACTTGGAGA AAGCCAGAAA TGTAATAAAA ACTTTGGATC      300
CCAAGTTAAA TCCAGCATCA GCTGAAATAA TGCTACTAAG AAAGCAGTTG GCAGAGAAAG      360
AGAGAAGAAT TGAGATTCTG GAGAGTGAAT GCAAAGTAGC AAAATTCCGT GATTATGAAG      420
AAAAACTCGA G                                     431
```

(2) INFORMATION FOR SEQ ID NO:1101:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 557 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101:

```
GAATTCGGCC TTCATGGCCT ACTGGGAATC TCTCAGCAGC TTTTGGCCAA ACAGATGGGC      60
CAGGAGCCGC GGAACCAGGC TGAGGAATGT TGCCCTACGA TCTCTCATAT CCATTCTCTG      120
CACCCACCAG CCCAGGGAAT GCCTCTACCA GTTGTACGCG AGAGGCTTAC ACAGCATCTT      180
AAATAAAAGG GATTATTGAA CCAAGAGGCC AGGGACTGAT GGAAATGCCC ACCTTGCTGG      240
CTCATTGAAA AAGTTTGGCA AGGTTGTCAG GAGACATGAA TTAGATGGGC TTGGGTCTTG      300
TGCCCTTTGC TAAACCAAGT GCTGTATTGG GAAAGAGACG GGGAGAGAAG TGTGGAGAT      360
GCTCTTTAGT CAGGCCTGAG TCACTTGCCC AACCTGGAG TTGGAGTTGG GGATGGAGCC      420
AGGATCTCCA AACCACATGC CCCTAGAGTT TCAGGAAAAA TATGGATTGT GAATTGAAGA      480
TGGGGGGTGA TGTAAGGCAG ACAAGGACAG AAAATCCCTC TTCCAGCTGT GATTGGCTG      540
TGAGTTTGGC GCTCGAG                                     557
```

(2) INFORMATION FOR SEQ ID NO:1102:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 577 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102:

```
GAATTCGGCC TTCATGGCCT AGTTTTTCTA GAGTGAATTA TAGTATTGAC GTGAATCCCA      60
CTGTGGTATA GATTCCATAA TATGCTTGAA TATTATGATA TAGCCATTTA ATAACATTGA      120
TTTCATTCTG TTTAATGAAT TTGGAAATAT GCACTGAAAG AAATGTAAAA CATTTAGAAT      180
AGCTCGTGT TATGAAAAAA GTGCACTGAA TTTATTAGAC AAAGTACGTA ATGCTTAACT      240
TCTTTACACA GCATAGGTGA AAATCATATT TGGGCTATTG TATACTATGA ACAATTGTGA      300
AATGTCTTAA TTTGATGTAA ATAAGTCTGA AACAAGAGAA AATGTTTTTA ACTTAGAGTA      360
GCCCTAAAAT ATGGATGTGC TTATATAATC GCTAGTTTTT GGAAGTGTAT CTGAGTAACA      420
```

GAGGACAGCT GTTTTTTAAC CCTCTTCTGC AAGTTTGTG ACCTACATGG GCTAATATGG	480
ATACTAAAAA TACTACATTG ATCTAAGAAG AACTAGCCT TGTGGAGTAT ATAGATGCTT	540
TTCATTATAC ACACAAAAAT CCCTGAGTGA CCTCGAG	577

## (2) INFORMATION FOR SEQ ID NO:1103:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103:

GAATTCGGCC TTCATGGCCT ACATGGACCT CCTGCACAAG AACATGAAAC ACCTGTGGTT	60
CTTCCTCCTG CTGGTGGCAG CTCCCAGATG GGCCCTGTCC CAGGTGCAGC TGCAGGAGTC	120
GGGCCAGGG CTGGTGAAGC CTTCGGAGAC CCTGTCCCTC ACCTGCACTG TCTCTGGTGC	180
CTCCATCAGT AGTGGTGGTT ACTACTGGAG TTGGATTCTG CACCACCCAG GGAAGGGACT	240
GGAGTGGATT GGGCGAATCT CTCACAGCGG GCACACCAAC TACGACCCCT CCCTCGAG	298

## (2) INFORMATION FOR SEQ ID NO:1104:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104:

GAATTCGGCC AAAGAGGCCT AGTCATCTTC AATATCTCTC TCTCTCATCC CTCATTAAA	60
TCATTCACCA AGTTTGGACA GTTTTCCTTT GCAATGTGTC TCCAAATGGT CATCCTCTTC	120
TCCTTTTCA GATTAGGATT CTGTGTTTCT TTACTCATTG GTAAAACAAG TTGGGGAAT	180
GCTAGTTACG CAGTTAATGG TGTAGTTACC GCAGGACTTG ACAAACCTC TAATGAAAGA	240
ATAAAACATT TGCTATATTT GTTGATCAG AGAACTTTT TTCCATCTCA GGGGATCATT	300
CTCGAG	306

## (2) INFORMATION FOR SEQ ID NO:1105:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 535 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105:

GAATTCGGCC AAAGAGGCCT ATAGGCCTCT TTGGCCGTCT AAATGAAATG ATTGCACTGC	60
ACATACTTCT AAAACTGTCC TGCATTGTA TAGCTTCCAT TTCATGGCGC TTCTTCTGGA	120
TGTCAGGCAC TAAGTCGGGC GCTTTATTCT GTAGTTCTCC TAGCAATCTG GTGAGCTCCA	180
CTCTACAGAT AAGGAAATCG AGGCCAAGGA CAGCTAAAGA AGCGAGGTGC GCAAGGTGCC	240
CAGGTCCGAA GTGTTTCCGC TGCTTTCAGA CTGCAGTCCC AGGGCTCAGG AGTCCATGCT	300
TTCTGCGTAT CTCACGCTG GCCACGGATC ACCTCATCAT TAGATGTCGA AGTTGAACAA	360

GTGGTGTTC	CATTGCGACG	TGTGTTAGGT	AGAAGTGTGT	GTGCACCTGC	GTGTGCGTGT	420
ATGTTCCACA	CGCTGATGCA	GGAGGTATAC	GCACAGATAT	AATTGTCTTT	TAGAAGATTG	480
ACTATCACTA	ATTTTGAAAA	ATTTCTTGAA	TGACCTTTCC	GNCCCGGCGC	TCGAG	535

## (2) INFORMATION FOR SEQ ID NO:1106:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 586 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106:

GAATTCGGCC	NAAGAGGCCT	AGAAAAAATT	AAAAAGGGAT	ACAGACGAGC	TGCNAGCTAT	60
GGACATAGA	TATTAACCCC	CAAAGAGTCN	TAACCACAGC	TGACTCTTAG	CTTCACAAGC	120
AGNCCTCNGA	ANGTGGTAGC	TTGTTTTAAG	CAGAGGCCAT	GCAGAACCCA	TGAAACCAAA	180
GGACAGAGCC	AGTAGGGCTG	GAGTCTGACC	AGAAAGTTCC	ATGCCCTCTG	CTTTCTGCAT	240
GGAAAATGAC	CTGGTAGGTT	TTAACCTATC	CAAGACTACA	GAGGATTTCA	GAATTTTCAGT	300
TTGAGGTATG	CCTCAAAACA	TTCCAGCCTT	GATCATGAAA	GAAAGAAGTG	ATCAAAATAC	360
CATATGTCAC	AATGGAAAAC	CCAAGCGGCC	CCAGAGCTCT	TCTTCAGTAA	TGAGATTTAG	420
TTGATCTGNA	CAGTTATTTA	TGCATTGAGG	TCATATTTTG	GCCAACTCTT	TGCTTACAGC	480
TGTCGCCAAA	TAAAGCCTTC	TGTNTTAGCA	TTTCTTTTAC	CAAAATCAGG	TTGAGAGATG	540
GTTCCTTGAG	AGGACTGTTT	TGTCAGGGAA	TACAGGGAAT	CTCGAG		586

## (2) INFORMATION FOR SEQ ID NO:1107:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1107:

GAATTCGGCC	AAAGAGGCCT	AGGACTTAAA	AGAACAGCTA	GAAAAGATGA	AAGGTGACTT	60
AGAAAGTAAA	AATGAAGAAA	TACTACATCT	GAACCTAAAA	TTGGACATGC	AGAACAGCCA	120
GACTGCTGTC	AGCCTCAGAG	AACTTGAGGA	AGAGAACACG	AGCTTGAAGG	TCATATATAC	180
CAGAAGTTCT	GAGATTGAAG	AGCTGAAAGC	CACTATTGAA	AATCTGCAAG	AGAATCAGAA	240
ACGATTACAA	AAGGAGAAAG	CAGAGGAAAT	TGAACAACTC	CATGAAGTCA	TTGAGAAGCT	300
GCAGCACGAG	CTGTCCCTCA	TGGGGCCTGT	GGTGACCGAA	GTCAGCGACA	GTCAGGCTGG	360
CAGTCTGCAG	AGCGAGCTGC	TCTGCTCCCA	GGCCGGGGGC	CCTCGTGGGC	AGGCCCTACA	420
GGGCGAGCTC	GAG					433

## (2) INFORMATION FOR SEQ ID NO:1108:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108:

GAATTCGGCC AAAGAGGCCT ACGTGAATAT TTTTCCATCT GTGTTTCATTG ATGTTAACAA	60
TAAAAATCTT GTTTATGTGT ATAAGCCTAA CATATGCCTG TGGGTCTTAT AACTGCCTGT	120
TCAAACCTCAA TGGGATACCA AAAATGTATC TGCTTACTTT GGGGGTCTAA CTTTAATTCG	180
GTACATATAA ACATCTCTGG AAAAAAATGT AGTTTTTTTC TCCCCCTGC TGTTTTCCCC	240
AGGCTTTCTC CTTTGACCTG GCCACGGTTC CCATAGACTA CAAGACGACT TAGAGACATT	300
GCTGTGACAT CTCGAG	316

## (2) INFORMATION FOR SEQ ID NO:1109:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109:

GAATTCGGCC AAAGAGGCCT ACTAACATTT TCCTAATCTT ATGTGTTTGG CTCCTCTCAT	60
TTACTCCCCA CAGCAGCCAC ATGAAGTTGG AATTTTGAAC TCTTATTTAG GTATGCAAAA	120
GGGTACCAGT TCTCTTTAAG GCTTTAGTTC AGGAGTGGTG TTAATGTATT AATGTGTTGG	180
GGCGCGAGAG GAAGGCGGTG CTTATTTCTGA ATCATGGTAG GTAAAGATAA TTTCAACTCT	240
GACACTTCCA CTAATAAATT TTCGCATCTA GGGAAAATGA CGTAAGCTTC CTAGATCACA	300
GATTTGTTTT CATCCAAAAC CCGAAGTCTG GTTTTGAAAT CACGCTCTTG ATACAAAGGT	360
GGCTCGAG	368

## (2) INFORMATION FOR SEQ ID NO:1110:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110:

GAATTCGGCC AAAGAGGCCT ATCCGGGGGG AGTAAGGTGA GGACAAGGAA CAGAAAGGCG	60
TGAGGTGATG GAAGGAAGTC CGGGAGAACC ATATGAAGGA GCAGGAGGAG AGGAAGAAAC	120
TTTTTTTCCT TCTTTCCAG GAGTAGCTGG AAATTAAGAT CGGGTTCCTT TTCTGCCAGC	180
TTGGAAGGGC AACCCCATGA CTGATTGCGA TTCTGAGGAT GTCTATGCAA AGTTGGATTC	240
TTGTTACAGT GTATCCAATC TGAAGTATTG CACATCTGAA CTGGGACTGT TAACACTGAT	300
GCCAATACAG TGTGGGGTGC CAGAAAGTGT CTGCTGATAT TTGTGGAAAA AAAATCTATT	360
TTGTTTACCT ACTGTATCAA AGGGGAGGAA CTCGAG	396

## (2) INFORMATION FOR SEQ ID NO:1111:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 427 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111:

GAATTCGGCC	AAAGAGGCNT	AGATTGTTTT	CATTAGCAAA	CTCATAATTA	TCCTTTTCCT	60
TAACACTTCC	AGTTGAGAAA	ACAAGTATTT	GTTAATGACC	AGTAATAATC	TTGATCCAGG	120
GTAGGCAAAA	TTTTTCTTCC	AGGGCCAGAT	TGATACTTTA	GGCTTTGCAG	GCCACGGGGT	180
CTCTGGCAAC	CCCCAGCTCT	GCTGTTGTAG	CACAAAAGCA	GCCACAGGCA	CAAGTAAACA	240
CATGGGTGTG	TCTCTGTACC	AATAAACTT	TATTTACAGA	AACACAGGGC	AGATGACTGT	300
CTGGCCCCTG	GTCTTGTGAG	CATTTTGTGG	TGGTGAACAA	AAGAACTGT	TCAGATCATT	360
ACATTACAG	TCATTACCAA	AAATAGAATC	TTACAGTAG	TTGTACTGTT	GATGAAGCAA	420
GCTCGAG						427

## (2) INFORMATION FOR SEQ ID NO:1112:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 504 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112:

GAATTCGGCC	AAAGAGGCCT	AGGTTATAAT	AGCAGCTTAC	TTTTGATAAG	CGTACTAACT	60
GGTACATAGT	AAATACATAC	TGTGCATGCA	TTATGTCATT	TATATCCACA	CAGTCACCTT	120
CAAAATCAGT	ACAATTTGTA	TTCCCGTTTT	ACAGATGAGA	AAGCATATTT	TGGTGAAGTC	180
AACCAAGGTT	ACATGACTAG	TAAATTTTAA	ATGAGATTTA	ATTTCACTAC	TTACTAACCA	240
TTATGCATTG	CTAAATTGTA	ACATTACTTT	AAAATATAAC	TTCTAAAGTG	TTCATATTAG	300
AAACCTATAA	ATATACATAG	ATTGTCTCTC	TCTCTNACGA	AGAACACATG	AAGGAAAGAA	360
AGATATTAAT	TTGGTGGCTT	ATCATATGCC	AGACATAGAT	ATAGATGCTT	GTATGTATGG	420
CATTTAATCC	TTATCTGTGA	GGTAGGTCTT	TTTATGCCTT	TCTATAGATT	TAAATTAAAG	480
GTTCACTTTA	GTAACCTGCT	CGAG				504

## (2) INFORMATION FOR SEQ ID NO:1113:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113:

GAATTCGGCC	AAAGAGNNCT	AGAGGGATAT	AGAAACTTAA	CAGCAGTGGC	TGACATTTTT	60
GCTTATTTGT	TAGGTATTGG	TGGTGGTGTT	AATCGGGTAC	GCAATATGCTT	TCCTTAGGAT	120
TTGCATTTGC	TGTTCCCTGT	GTCTAGAACG	CTATTCCTTA	GATAAATCTT	CATTCTTAC	180
CTCCTTAAAA	TGTTTTCTCA	TCTATCACCT	TCTTAAGTCT	GTACTGATCA	CCCTACTTAA	240
AATTATAACT	GCCCCTCTTT	GCTTGCACTT	CTAAGCTTCC	TTACCCTAGT	CTGTTTAGCA	300
GTACCTCCT	TGAAACATGC	TCTGTAGAAT	TTACTTATTA	TGACTATTGT	CTCTCTTACT	360
ACCCTCGAG						369

## (2) INFORMATION FOR SEQ ID NO:1114:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114:

GAATTCGGCC AAAGAGGCCT AGTTAAAAAT AGAATTTGAG ATATTTAATT TTCTGCTCTT	60
TTTAAGTTAT GAAAACGTAT TTAAGTCGAG	89

## (2) INFORMATION FOR SEQ ID NO:1115:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115:

GAATTCGCCA AGAGCCTATT AATTTGTAAA CCTTAATATA GTGTAACTG AATAAAAGTA	60
AATAATTATT ATTAGAATGG TAACTAAGTC ATTAATTTT TTNGCAGAAC TGAAACTTGT	120
ATGTTATTAG TTTATTTTCT TAGACCAAGT TAATAATGGA CTGTAAATAG AAAAATAAAT	180
GTCACTTTAC AGTTAGATGT ATCACAGTCG TTTCAGGAGA ATTTTTCCTA TATTGTTACC	240
TTGATTCATT GTTTAAAATT GGTAGGATTT GTATAGATAT AGGATAGTGT TTTATTTATA	300
CTTTATCATA AGCCATAATC ATTTTAAGAA TACTTTATTG GATAGATTTT AGTACTTTTT	360
AAATTCTAAA GTTCTATTTT TCTTTTCACT TCCCCTTCTT TCCCCTTATA AGATCATTTC	420
CATGTCTTTG TTGGTGATCT CAGCCCAGAA ATTACAACTG AAGATATAAA AGCTGCTTTT	480
GCACCAAGTC TCGAG	495

## (2) INFORMATION FOR SEQ ID NO:1116:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 522 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:

GAATTCGGCC AAAGAGGCCT AGGGAAAAGA AGGGCTTTGG GGACCTGCCC ACTTCAAAAA	60
CAGTTTTTCT CATCCTTTGC CTTGCGGTCC AAACCCAGCT TGGTGTTTT CTAAGGGAGC	120
TACAAATTCT GGAGCATCCC ATGAGGATGA TTTGCTGGCC TCGGTCATTA GGGGGAAGG	180
ATGTTCTCAG AAAACAGCC CTGCACGCTG GTACAGCAGAG ATCTTGAGGT CGTGGCCACG	240
ACTGGACTTG GTGCAGAGCT GAACCCGAGA CTCCAGCTGC TCGCTGAGTT CGTCCAGAGC	300
CCCGGTGCAG GACTCCAGGC TCTCGGCCAG TTTCTGAATC TTGGCCTTCA GCACGGCCTG	360
GCTAACCTTG GTGTCCCCCT CCGCCCGCCT GGGGATGAGG AAGCCACGTG AGCCAAAGAA	420
GACGATGAAG TAGACAGAAT TGTACAGGGC GATGGAGGCG TTCCTCCCGC ACTGCAGCAG	480
CTGGCGGTCC CCGCAGCCCT GCCAGCGGCA GAAAACTCG AG	522

## (2) INFORMATION FOR SEQ ID NO:1117:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117:

GAATTCGGCC AAAGAGGCCT AAAAATATTT TACTTGTTCC ATCCACAGTT CTCTACAGAA	60
AGAACCAATG AACCCAATAG GAACAAATTC TCTGTGGAAA ACAAAGCATA GCTGTAGTAG	120
ATACGAATCC AATCACAGAG GAAACAGGAA GAGAAAAACA TCCAAGACTA TAGTGAAAAC	180
TGGAATGGT CTGTTTTCGT GATATTCGTA TGATTAAGAT GCAAATTTT TCTTAGGAAA	240
ATGTGATTGT TAACTAGCAT TCTGTTTAC ATGTTGACAT TTCTAACACA CACACCACTG	300
ATTTGAACTT CAAAATTTAT TTTCTGATTA TATATGCTAG GTCATGCTCG AG	352

## (2) INFORMATION FOR SEQ ID NO:1118:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118:

GAATTCGGCC AAAGAGGCCT AGTGCCCACT CATTTATGTA CTGTCTATAG CTATTTTCAT	60
GCTACAATGG CAAAGCTAAG TAACACTCAA GGCCTAAAAT ATTCACATA TGCCCTTTGA	120
AGAAAAAGTT CACTCAACTC TGCCCTAAAC TACAGACCCT GGCCAAGGTG GGAGGATCAC	180
TTGAGGCTAG TAGTTCAAGA CCAACCTGAC TCTGTCTCTG ACTCTGTCTC TACCAAAAAA	240
AATTAGCTGG GCGTTGGGCT TATCCCTGTA ATCCCAGCTA CTCAGGAGTC TGAGGCAAGA	300
GGATCACTTG AGCCAGAAG TTCAAGGACA CAGTGAGCTA TGATTGCACC ACTATACCCC	360
AGCCTGGGCA ACAGACCAAG ACCCTGTCTC TAAAAACATA AAATAAAAAA TAAAAATAA	420
AAATAAATAA TAAAGAAAAA AGAAACAGAA TTAAAGAAAT TCTTTTGCTC AAAGTCTCGA	480
G	481

## (2) INFORMATION FOR SEQ ID NO:1119:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119:

GAATTCGGCC AAAGAGGCCT AAGTTGTGTC AGTGTCTCTC CTAAGGTAGT AAATATAATT	60
GACTTATTCT GAACCATTC TATTTTGAAT CTCCCCTTC CTCTACAAT ACTTGACAT	120
TTTAATCTTT TGGAATATTG TCTTCTTTG TTATAACTAT TCATTTTATG CTTTGTCTC	180
CAGTGCATGA TCTCATATTT TTGCTTTTAT TTTTAGTATA AGAACATTTA TAAAATCATA	240
TTTTTGTTAC TGCAATTGTT TTATTTGTTG TGTGGCAAT GAGAAATCCT TTATTTATTG	300
TGCTGTATCT CGAG	314

## (2) INFORMATION FOR SEQ ID NO:1120:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120:

```

GAATTCGGCC TTCATGGCCT ACCAGATACT GTTTTTTTAA TACATATTCA AAAGAAAGCT      60
ATTAACCCCTG ACAGACATTT CTCAGTCTGT GCTTTTTTCT ATTTTATCAT TTTAAAGTAC      120
TTAAGATAGA AAGATGAAAA AGCATTGTGT GGCTACTTGG TTAGCTTCAC AAATTTTCCC      180
CCTTCCTACG CAGCTCGAG                                     199

```

## (2) INFORMATION FOR SEQ ID NO:1121:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121:

```

GAATTCGGCC TTCATGGCCT AGTAGCATAT TAACAGTGTA ATAAAAAATA AAAACAAACT      60
CTAGTATCCA GAGGATCACA TGCTGACCAG ACCCTGTGTA GAAAGTGCCG AAGAGCATCA      120
AGGAAATGGA AACGTTGGAA TTCCATCCGT GCTTGTGGCT TTCCTTAAAC TTTTGTATG      180
GAAAATTTCA AATATACCCC GAAGTGGAGA TTGGCTTAAA TCAGCCCCAC GTGCCCATCA      240
CTCGGCTCCA GTCATTATCC AGTGTGGTTC CTCTGATCTT CACCACCCCC TCGAG          295

```

## (2) INFORMATION FOR SEQ ID NO:1122:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 410 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122:

```

GAATTCGGCC TTCATGGCCT AACGGAAGCG TCTCCTCATT GATGGAGATG GTGCTGGAGA      60
TGATCGGAGA ATTAATCTGC TAGTGAAGAG TTTCATTAAA TGGTGCAACT CTGGGTCCCA      120
GGAAGAGGGA TATAGCCAGT ACCAACGTAT GCTGAGCACG CTGTCTCAAT GTGAATTTTC      180
AATGGGCAAA ACTTTACTAG TATATGATAT GAATCTCAGA GAAATGGAAA ATTATGAAAA      240
AATTTACAAG GAAATAGAAT GTAGCATAGC TGGAGCACAT GAAAAAATTG CTGAGTGCAA      300
AAAGCAAATT CTTCAAGCAA AACGAATACG AAAAAATCGC CAAGAATATG ATGCTTTGGC      360
AAAAGTGATT CAGCACCATC CAGACAGGCA TGAGACACAG GGAACTCGAG          410

```

## (2) INFORMATION FOR SEQ ID NO:1123:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123:

```

GAATTCGGCC AAAGAGGCCT ACCTTTCTTT CCTCCCTTCC TCCTCCCATG TCCCTCTCTC      60

```

CTCCCTCCCA CCTCTCACCC TTCTCCATCC CTCCTCCCTC TTTCTTTTG TACTTTCCAG	120
CTGGAGCAGC AGCAGCAGCT GGGCCTGAAT CAATGATTGA CTCCCCACG ACCTCCCCTT	180
CTCTTTTGCC AATGATATCT CTTTGGCCTT CCAGTCATCT TTAAATTTTA TCGTGATGG	240
TTTTGCTTCT CCTTCCTCCT CTCCTCTCT TCCCTCTTC TCCCCCTCT CCCCCACCGA	300
CAGTCGAG	308

## (2) INFORMATION FOR SEQ ID NO:1124:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 445 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124:

GAATTCGGCC TTCATGGCCT ACAATTTTGC CATGGTCTG CTCATTTTTC CTGCAATTCT	60
CAGCATGGAT TTATATCGAC GCGAGGACAG GAGACTGGAT ATTTTCTGCT GTTTTACAAG	120
CCCCTGCGTC AGCAGAGTGA TTCAGGTTGA ACCTCAGGCC TACACCGACA CACACGACAA	180
TACCCGCTAC AGCCCCCACC CTCCTACAG CAGCCACAGC TTGCCCCATG AAACGCAGAT	240
TACCATGCAG TCCACTGTCC AGCTCCGCAC GGAGTACGAC CCCCACACGC ACGTGACTA	300
CACCACCGCT GAGCCGCGCT CCGAGATCTC TGTGCAGCCC GTCACCGTGA CACAGGACAC	360
CCTCAGCTGC CAGAGCCCAG AGAGCACCAG CTCCACAAGG GACCTGTCTT CCCAGTTCTC	420
CGACTCCAGC CTCCACTGCC TCGAG	445

## (2) INFORMATION FOR SEQ ID NO:1125:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125:

GAATTGCCTT CATGGCCTAC ACCAGCCTAT TCTCTGCTTC TGTGAGTTTG ACTCTTTTTT	60
TTTTTATGAG ACAGAGTCTC ACTCTATCTC CCAGGCTGGA GTGCAGTGGC ACAATCTCGG	120
CTCACTGCAA CCACCACCTC CCAGGTTCAG GCAGTTCTCC TGCCTCAGCC TCCCAAGTAG	180
CTGGAATAT AGGTGTGCCC CACCACGACT GGCTAATTTT TGTATTTTTA GTAGAGACAG	240
GGTTTCACCA TGTTGGCCAG GCTGGTCTCG AACTCCAGGC CTCATGTAAT CCGCCACCT	300
TGGCCACACT CGAG	314

## (2) INFORMATION FOR SEQ ID NO:1126:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126:

GAATTCGGCC TTCATGGCCT ACACGCCCCC GCCCCGCTG CTGCCCAGGA ATACTTTCTC	60
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CAGGAAGGCT	TTCAAGCTGA	AGAAGCCCTC	CAAATACTGC	AGCTGGAAAT	GTGCTGCCCT	120
CTCCGCCATT	GCCGCGGCCC	TCCTCTTGGC	TATTTTGCTG	GCGTATTTCA	TAGCAATGCA	180
TCTGCTCGGA	CTCAATTGGC	AACTCCAGCC	TGCAGATGGG	CACACCTTTA	ACAATGGGAT	240
AAGGACCGGC	TTACCAGGAA	ACGATGATGT	GGCAACAATG	CCATCTGGAG	GCAAAGTGCC	300
CTGGTCGTTG	AAAAACAGGC	AACTCGAG				328

## (2) INFORMATION FOR SEQ ID NO:1127:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127:

GAATTCGGCC	TTCATGGCCT	AGTGAGGCTC	CATTATTTTC	ATTTTAAACA	AGTTTCAAAA	60
TGTGGCTGCT	GCTGTTGCTG	GTGGTCCGGA	GCCTGCAGAC	AGGGGGATT	GCCTGGGAAG	120
GAGAAGTAGA	AAACAACGTG	TACAGCCAGG	CTACAGGGGT	GGTCCCCCAG	CACAAGTATC	180
ACCCACAGC	AGGCAGCTAT	CAGCTTCAAT	TTGCCCTGCA	GCAACTTGAA	CAACAAAAAC	240
TTCAGTCCCG	GCAGCTCCTG	GACCAGAGTC	GAGCCCGGCA	CCAGGCAATC	TTTGGCAGCC	300
AGACACTACC	TAACCTCAAT	TTATGGACAA	TGAATAATGG	TGCAGTTGT	AGAATTTCCA	360
GTGCCACAGC	TAGTGCCAG	AAGCCAACCA	CTCTGCCACA	AAAAGTGGTA	CCACCTCCAA	420
GTCTTGCGC	CTCCCTGGTT	CCCAAACCCC	CACCGCTCGA	G		461

## (2) INFORMATION FOR SEQ ID NO:1128:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1128:

GAATTCGGCC	TTCATGGCCT	AGAATTATCA	TGGCATCTGT	AACACACATG	CCTGTGCTAT	60
ATTCTCACAA	TTTTGTTTCA	GTTGTGCATA	TTAAATATG	GAGCTCCATA	TTTTTTCACT	120
TCCTAGTTGA	TCACAGTTGA	CTGGGTTGTC	TTTTCTGTCA	CCTGTTAGTT	TTGAAGAGAT	180
GTCTCATATG	TAGTGATGTT	AGGTATGATG	CATTAGCCCA	TAGTAAATAC	CTGGTACTGT	240
CTCTCAAAAA	AAGCCTTTAG	CTTTTTTGTA	AAGAGGACAA	CAGAAAACAC	ACCAAAAAAG	300
CAGAAAAATA	TGTGTCGGTG	ATAGTGGGAG	AACTTATAA	ATCATGGTCA	TATGTTACCC	360
CAGAGAAGGC	TTACACAAGG	TCAGCTACAG	TTTACCCAAT	AACGCTGTGA	TTGTCTGGTT	420
CCTTGGCTTA	GAAAGCTTAG	TCTCTGCCAA	GCGGCCTCGA	G		461

## (2) INFORMATION FOR SEQ ID NO:1129:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 491 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1129:

GAATTCGGCC	TTCATGGCCT	ACAAGAATGA	AGCACTGAAA	AGCGAAGAAG	GCTGCATTCC	60
GAATATCGCC	CCAGACATCT	GCATAGCATA	CAAACCTGCAC	CTAGAGTGTA	GCAGGCTCAT	120
CAACCTCGTG	GACTGGTCAG	AGGCTTTTGC	AACAGTTGTG	ACAGCTGCTG	AAAAAATGGA	180
TGCAAATTCT	GCAACCTCAG	AAGAAATGAA	TGAAATTATC	CATGCTCGGT	TTATTAGAGC	240
TGTTTCTGAA	CTAGAACTTT	TAGGATTAT	AAAACCTACC	AAACAGAAGA	CTGACCATGT	300
GGCAAGACTA	ACATGGGGAG	GCTGCTAGAA	AGCAAATAAG	CAAAGCCAGA	ACTATCACAT	360
TTAGCTTAAG	AGAAAAAGGT	GACCACTCAT	ATTACATAT	ATTAGAGGAG	CCTGTTTTGT	420
TGAGAAGATA	AATGTGTAAC	CCCCATTGAT	GTTTAACCAG	AAAAGTACAT	TGCTAACCCC	480
AAGAGCTCGA	G					491

## (2) INFORMATION FOR SEQ ID NO:1130:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1130:

GAATTCGGCC	TTCATGGCCT	AGGGCAACAG	GAAACTCTTT	ATTATGGTGA	TGAGATCGAC	60
AATCTCCCCT	ACTGTTAACC	TTCGCTCCTG	CACACTTCAG	TGTCCTCACT	CTGTAGGGCT	120
CGCTGGCCTG	GGCTTCTGCG	ACCCGCGATC	GTCCAGGAGA	GGGCACTCGG	CGCCCTTCCT	180
GGGGCGCTTC	TGGGGCGGAA	TTTGCTAGGC	CGCCGTAGCA	GCGGTGCCAG	GTCAGAAGCC	240
GAGCCGGCCC	GCTTTTCGTT	CTTTAATTGG	ACTCTTGGCT	AAGACGCTAC	CGACACCCCG	300
TCAGGTGGTG	GAGGAAGAAG	GACAACAGGG	AGAGGTCGAG	GGCCGAGACG	GCCTCGAG	358

## (2) INFORMATION FOR SEQ ID NO:1131:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131:

GAATTCGGCC	TTCATGGCCT	AAACATCCTC	CTGCCACTTA	GGAGGAAACA	CCTCCCTATG	60
GTACCATTTA	TGTTTCTCAG	AACCAGCAGA	ATCAGTGCCT	AGCCTGTGCC	CAGCAAATAG	120
TTGGCACTCA	ATAAAGATT	GCAGAATTTA	ATACAGATCT	TTTCAGCTGT	TCTTAGGGCA	180
TTATAAATGG	AAATCATAAC	GTGTTCTAG	GTTATCAAAC	CATGGAGTGA	TGTGGAGCTA	240
GGATTGTGAG	TGACCTGCAG	GCCATTATCA	GTGCCTCATC	TGTGCAGACC	TCGAG	295

## (2) INFORMATION FOR SEQ ID NO:1132:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 500 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132:

GAATTCGGCC	TTCATGGCCT	AATGAAAAAC	AAAACAAAGA	TGATGAAGCA	GAGTGGCAAG	60
AATTACAACA	AAGCATACAG	CGAAAAGAGA	GAGCTCTATT	GGAAACCAAA	TCAAAAATAA	120
CACATCCTGT	GTATAGCCTT	TACTTTCCTG	AGGTAGAGCT	GAAGTTCCT	GCACCAGGCA	180
AGCCTGGAAG	TTATCAGTAT	ACTGTGTTTC	TGAGATCAGA	CTCCTATATG	GGTTTGGATC	240
AGATTAAACC	ATTGAAGTTG	GAAGTTCATG	AGGCTAAGCC	TGTGCCAGAA	AATCACCAC	300
AGTGGGATAC	AGCAATAGAG	GGGGATGAAG	ACCAGGAGGA	CAGTGAGGGC	TTGAAGATA	360
GCTTTGAGGA	AGAAGAGGAG	GAAGAAGAAG	ATGATGACTA	AGCAGTACTC	TGAATGGACC	420
ACAGTGTTTG	CACATATTTG	CAATTTTTTG	CTGTTTTGGA	AGTGTATCAT	AAACCAGAAA	480
CAGTACATAA	CAATCTCGAG					500

## (2) INFORMATION FOR SEQ ID NO:1133:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133:

GAATTCGGCC	TTCATGGCCT	AGATTATATT	GCATATATTT	TATAGAACAA	GGCAAGCAAA	60
ATATTTTAGT	ATTTGCAAAT	CATGTTACTA	TAATTATTAG	ATCATAGTAC	CATTTATATA	120
AAGTATTAGG	TGGTGCAAAA	AGTAATTGCG	GTTTTGGACC	GTGAATTTTA	AATCATTATA	180
AGTCGGCTCA	GACACGCTCT	TATTAATCAG	AGCAGGAAGC	ATTATAATCA	ACACATTTTT	240
GCCAATGAGA	AATAAGTTTG	TTCATTCCTG	TAGCTTAAAA	ATTCATGCTT	TGGGATTTGG	300
AAAGCATTTT	CTGCTTTCCA	AAAACCTGCT	GGTTTTGGAA	GCATTTTCCT	TTCAAATAGT	360
TGTCGAGATG	CTTGAAGAAG	TGGTGGTTGA	CAAGAGGTCA	GGTGAATACG	GCGGCTCGAG	420

## (2) INFORMATION FOR SEQ ID NO:1134:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1134:

GAATTCGGCC	TTCATGGCCT	AACTAGTCCT	GACTGCTTAG	ACAAAGTCAT	AGATTATGTT	60
CCAGGCATT	TCCNAGAAAA	CAGTTTTACA	ATCCAATACA	TTCTGGACAC	CAGTGATAAG	120
CTGAGTACTG	AGCTCTTTCA	GGACAAAAGT	GAAGAGGCTT	CCCTTGACCT	CGTGTGTTGAG	180
CTGGTGAACC	AGTTGCAGTA	CCACACTCAC	CAAGAGAACG	GAATTGAAAT	TTGCATGGAC	240
TTTCTGCAAG	GCACTTGTAT	TTATGGCAGG	GATTGTTTGA	AGCACCACAC	TGTCTTGCCA	300
TATCATTGGC	AGATCAAAAAG	AACAAC TAGC	TCGAG			335

## (2) INFORMATION FOR SEQ ID NO:1135:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1135:

GAATTCGGCC TTCATGGCCT AGCAATTTTT CCCTCAGGGG GGCTCCCATC TTCTTACACA	60
GAGAGGCAGC TGAGGCAGGA CAGTGGGGCT AACTGTAGAC CAGGCGAGGG CACGGGCTGC	120
TGGGGTGGCC CTGCTTCCCC AGTGACATA TTGTATCTGT GTAACATTTT GTATATTCCA	180
GGGGTAGGGC CGCCCCCTGT ATCATACCTA GCAGAGGTTG GAGCTGGCAC ATGGGGAGGA	240
GGTTCTAATA ATTATTTGGG GCTGGGAAAC TTATTTATTG ATAGCATAGG ACAGAGCCCA	300
CTCTCGAG	308

## (2) INFORMATION FOR SEQ ID NO:1136:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1136:

GAATTCGGCC TTCATGGCCT ACCGAGGCTT CAGCGGGTGC CGCCCGCCTA GAGGGAGTGG	60
AGCGGCTAGA CAGCTTTAGG AACTGAAAGG TTCACGAGGC TGTAAACGAAG AGTCGAGTTG	120
CTCCAGAGAG CCTACGACTA GATTTCATC TTTACGTCCT GCGCGGAGGC TGCTACACAC	180
ATGCAGAAGT CATGCTGGTG GCCTGGACAG TGAAGGGAGA GAAGTGGATT TGGGAGACAT	240
TTAGGAGGAA CAGTAAGAGG ACCTTGTGCA TGAATAATTT GTTCCACAC TACAGAGTGG	300
GTAATAAGCA GATTAGTAA AACAAATCTG CTTCACTTCA ATAACAGCCT CCTCCAATC	360
ATTTTTTCTC AACAACTTA TTTCCAGCA GAAGAATCCC AGACTTCTTA GAGAACCCAG	420
TGACTTTTGG CACCTTAAAT CTGIGAAATC CTCATGTTT CTCTGCCGT ATCCATAGTT	480
CAAACAAGAA CCTCGAG	497

## (2) INFORMATION FOR SEQ ID NO:1137:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137:

GAATTCGGCC TTCATGGCCT ACAATTGTAT GCTGAAAAAT GGGAGTAACT ACATGAAATG	60
AGCAAATGCC TAGAAACAAA AAACCTACGA AGATTGTATC ATGAAGAAAT AGAAAAATATG	120
AATAGACGTG TGTATTAGTC TGTTCTCACA CTGCTAATAA AGACGTACCC AAGACTGGGT	180
AATTTTTTTG TTTTAAAGAA AAAAGAGGTT TAATGGACTC ACAGTTCCAC GTGGATGGGG	240
AGGCCTTATA ATCATGGCAG AAGGCAAACA GCACGTCTTA CATGGCAGCA GGCAAGAGAG	300
AATACTCGAG	310

## (2) INFORMATION FOR SEQ ID NO:1138:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138:

GAATTCGGCC	TTCATGGCCT	AAGCAAATCA	CTTTTCCCGA	TTGAAAATAC	ACTTTACAAA	60
AGTGTTTTCA	GCTTTTGCAT	TGGTTAGGAC	TATACGGTAT	CTTTACAGAC	GGCTACAGCG	120
GATGTTAGGT	TAAAGAAGAG	GCTCTGAGAA	TGAAGACCTC	TGGGCAGAGA	GTGAAGGAAC	180
TGTGGCATGC	CTTGGTGTCTG	AGGACCGAGC	AGCTACCTCA	GCAAAATCTT	GGCCAATATT	240
CTTGTTCTTG	GCTGTTATCC	TTGGTGGTCC	TTACCTCATT	TGGAACTAT	TGTCTACTCA	300
CAGTGATGAA	GTAACAGACA	GCATCAACTG	GGCAAGTGGT	GAGGATGACC	ATGTAGTTGC	360
CAGAGCAGAA	TATGATTTTG	CTGCCGTATC	TGAAGAAGAA	ATTTCTTTCC	GGGCTGGTGA	420
TATGCTGAAC	TTAGCTCTCA	AAGAACAACA	ACCCAAAGCA	CTCGAG		466

## (2) INFORMATION FOR SEQ ID NO:1139:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 473 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1139:

GAATTCGGCC	TTCATGGCCT	AATTTTTTTT	AATAGAGACG	AGGTCTTGCT	ATGTTGCCCA	60
GGCTGGTCCC	AAACTCCTGG	CCTCAAGCAG	TCCTTCCACC	TTGGCCTCCC	AAAGTGCTGG	120
GATTATCAAT	ATGAGCCACC	ATGCCAGATT	TGTTCAATTT	TAAATATTTT	TATCTCTTCA	180
AGTCATCTTT	TGATCTTTTA	AAAAGCACCT	TCAAACAGCT	GCACCTTCCA	TTTGCACTAG	240
GAAATGAAGG	TAGTGATGGG	ATTGGCAATG	TTCTTGGCAG	ATGTTTCAGC	CCAAAAGCTC	300
TTCTACAGAC	CGGTTTAGAG	CTGGTGCCCT	ATGAGAATAT	TAGGGAGCTT	TTATTTTAAA	360
TTGAACTTTA	CCCTTGTTCA	TGCAAGGCAT	TCCTCCTGAA	TGCATCCATG	AATTGTGTTA	420
CTTTTGCGTC	AAACATATGA	GCCATTGTCA	TGCTCAGCAT	GTGCCACCTC	GAG	473

## (2) INFORMATION FOR SEQ ID NO:1140:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1140:

GAATTCGGCC	TTCATGGCCT	AAATGAAGAT	CAGCTTCGTG	CAAAGGGTTA	TGACAAAACA	60
CCAGACTTCA	TTTTACAAGT	ACCAGTTGCT	GTAGAAGGGC	ACATAATTCA	CTGGATTGAA	120
AGCAAAGCCT	CATTTGGTGA	TGAATGTAGC	CACCACGCCT	ACCTGCATGA	CCAGTTCTGG	180
AGCTACTGGA	ATAGGGTCCC	AATATAACAG	ACAAATGGTG	AAACAGAGGG	ATACTCACTA	240
GGAAACAGAT	TTGGGCCAGG	CTTAGTCATC	TATTGGTATG	GATTTATCCA	GGAGCTGGAC	300
TGCAACCGGG	AAAGGGGCAT	CCTGCTCAAA	GCCTGTTTCC	CCACGTCCTC	GAG	353

## (2) INFORMATION FOR SEQ ID NO:1141:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 571 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1141:

GAATTCGGCC	TTCATGGNCT	ACCAATTTCT	CATGGTTCCC	TAGGACCTTC	CTAGCTCCCC	60
AGGGAAAGCC	TNTGCTGTTT	CCCTTGNTTT	CTTTTCACTT	GACAAACTCC	TACTCAAAT	120
TCAAACCCCA	ACTCAGGAAA	CATCTCCCCT	AGGAAGCTCT	CCTTAACTTT	TTCTGCTGGG	180
TCCCGCTGCC	TCTGCTAAAG	TCCACGTGAG	GGACTGCCAA	GANGTTTGCT	CTGTCTCACA	240
GATTGAGTGC	CAAGAGGGCA	GGGACNTCTC	TTTGAGAGAG	TTTAACCTCT	GTAACATAAG	300
CAAGTTTACT	TAATCACTGA	TTAACCACT	TTGTGCCTCA	GTTTCCCCAT	TTGTTAAGCA	360
TGAATTATCA	CTGTCACTAT	CTGCCAGGAC	TGTGAAGGGG	GTGTAAATGC	ATGAACATCA	420
TAAAGTGCTT	AGAAGCATGC	CTGGTACAAA	GAAAGTTCTC	TAGGNAAACA	ANAAACAAAC	480
AAAAAAAAC	AAAACAGAAA	TGTATCTAGA	GGTCAGATAC	CAGTCCCACA	TCGAGTGCAG	540
ATAATGGGCT	AAGTAACCAA	TGAGTCTCGA	G			571

## (2) INFORMATION FOR SEQ ID NO:1142:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1142:

GAATTCGGCC	TTQATGGCCT	AGTAAGGAGA	GCCTCTATCA	AAGGGTGGCC	TGGAGCAGAA	60
TATCAGGCTA	TGTGTATTAG	TTCGTTTTCA	CACGCTATGA	AGAACTACCT	GAGACTGGGT	120
AATTTATAAA	GAAAAGAGGT	TTGATTAACT	CAGAGTTCCC	ATGACTGGGG	AGGCCTCAGG	180
AAACTTACAA	TCATGGTGGA	AGGCATGATA	GCAGGAGGGG	TGGAAAGAGG	GGAGTGTAC	240
ACTTTAAAC	CATCAGATCT	TGTGAGAACT	CACTCACTAT	CATGAGAATA	GCAAGGGAGA	300
AATCCACCAA	CTCGAG					316

## (2) INFORMATION FOR SEQ ID NO:1143:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 442 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143:

GAATTCGGCC	TTCATGGCCT	ACTCAAGCGT	TTCACTGTGC	GATATCTGCG	ACTGCTCGCA	60
GTCTTGCTTT	CCTTGGTTCT	CCCCTGGGGG	CTCAGGATTA	CGAGGCCTGA	AGCTCCTAGA	120
GGCTAAATGC	CAGGGGGATG	GAGTGAGCTA	CGAGGAAACC	ACTATTCCTC	GACCCAGCGC	180
CTACCACAAT	CTGTTTGGAT	TACCACTGAT	TAATCGTCNA	GATGCTGAGG	TGGTACTGAC	240
GAGTCGTGAG	CTTGACAGCC	TGGCCTTGAA	CCAGTCCACG	GGGCTGCCTA	CCCTTACTCT	300
ACCCCGAGGA	ACGACCTGCT	TACCCCTGCT	CTTACTCCCT	TACCTGGAAC	AGTTCCGGCG	360
GATTGTATTG	TGGTTGGGGG	ATGACCTTCG	GTCTGGGAA	GCCGCCAAGT	TGTTTGACACG	420
AAAACCTGAGC	CCCAAACCTCG	AG				442

## (2) INFORMATION FOR SEQ ID NO:1144:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1144:

```
GAATTCGGCC TTCATGGCCT ACCATCTACA GCTGTATTCT TGTTCCCTTG ATGGCACAAT    60
TAAACTGTGG GACTATATAG ATGGCATCTT AATAAAGACT TTCATAGTTG GATGTAAACT    120
TCATGCCCTC TTTACTCTTG CCAAGCTGA GGATTCTGTC TTTGTTATAG TGAATAAAGA    180
AAAACCAGAT ATATTCAGC TGGTTTCAGT GAACTGCCA AAATCCTCAA GCCAGGAAGT    240
AGAAGCCAAG GAGCTGCCT TTGTTTGA TTACATAAAC CAGTACCCA AGTGCATTGC    300
CTTTGGAAAC GAGGGAGTAT ATGTTGCGCA GTACTCGAG    339
```

(2) INFORMATION FOR SEQ ID NO:1145:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145:

```
GAATTCGGCC TTCATGGCCT AGGCCAGGG ACCCGCCTC AGGTCTGTGG AGGTGCTTCA    60
ACAGCACGAT GCTCATTCTC TGCCGTAGT GTCTCCATAT ACTTTCTCAT CTCTCCACC    120
ATCCAGGAGG GTAGGACAAA GGATTTCAT TCCTCTAGCT TCAGATCCAG GCATCCTCTG    180
TAATCATCAC TGGCCGCAAG GTCCCGATG TCCTCTCGA TGAGGAGGTA GGCCATCTTG    240
CCCCCTGTTG CCCGCAATGT ATGCTGCTCA GCCAGCCAGT GCTTATCCTG GGGGTGAGCT    300
GCATACTTAA AGAGGTGTGG GTGCTTGATG TAGATTCTTC CTCTGGTGCC CCCCATCCCC    360
AGGGCTTTGT TGGCTCGAG    379
```

(2) INFORMATION FOR SEQ ID NO:1146:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1146:

```
GAATTCGGCC TTCATGGCCT AGGAAAGCTG GGGGCAAGGA AGAGCCTTGA ATCTTGAGGT    60
GGGACGTTGA CTCTAAGATG TCCTTGAGCA GTGGAGCCTC CGGAGGGAAA GGAGTGGATG    120
CAAACCCGGT TGAGACATAC GACAGTGGGG ATGAATGGGA CATTGGAGTA GGGAACTCTCA    180
TCATTGACCT GGACGCCGAT CTGGAAAAGG ACCAGCAGAA ACTGGAAATG TCAGGCTCAA    240
AGGAGGTGGG GATACCGGCT CCCAATGCTG TGGCCACACT ACCAGACAAC ATCAAGTTTG    300
TGACCCCACT GCCAGGTCCT CAAGGAAAGG AAGGGCTCGA G    341
```

(2) INFORMATION FOR SEQ ID NO:1147:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1147:

```

GAATTCGGCC TTCATGGCCT AGGGGGGGGCC ATCTTTAATT CTGTAAGTTC ATGGTAAAGG      60
TATCTCCCCC CACACTGGGG CAGGCGGGCGG AATAAGCTCC AGCGTTCATG CGCCACTCAC      120
AGGACTGCTT ACCCCCACTG CACTTACAAT GCAGTCACAG AGTTACGGCA TGTTACCCGG      180
TGTCCATGAC AAGCAACACC AAGTATAAAT AACAGAACTA CAGCAGAGCA AACTAAGATA      240
AATATGTTTT TGCATCGTCC TCCACATAGT TTCCTTTTAA AAAGAAGAGT CACATCCAGG      300
GGTCTATCCC TCGAG                                     315

```

(2) INFORMATION FOR SEQ ID NO:1148:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 473 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1148:

```

GAATTCGGCC TTCATGGCCT AGCTCTTTGG GGAGCTGTTT CAGAGGGAAA GTGGATGAAG      60
GCTGAAGTGG AGGCCAAAT AGGTGCTCTA GTACCTCTC TTGGATCTCT TTCAGCTTTT      120
ACCTGTTTTA TATGCTGGGA TTTTATATAC AACTATTTGC AGAACTCAAC TGCTAAAGTA      180
AAACGGTGGG GAGGACTATT GGATTGGGAG ATCTCTAAAA TCCCATTGGG ATTGATGAAA      240
AAGAGAACTA TCAGCAGAAA AGAGGAAGGG AACAAATGAG TTGTTAGTAC CTTAGTTCCT      300
AATTTATGTT CCTTTATTGT AGATTCTTTT CTTGGCCACT ACACTCCTTA GAAATATAAT      360
TCAACACTGT TTCTTTTACC ATTTTGTATG ATATGCAAAG TCCAGCTTTA CTCAGCCACA      420
TTTTGTCCAC TGGCTTATAT TTAATTTATA TTTTAGGATA CAGATAACTC GAG             473

```

(2) INFORMATION FOR SEQ ID NO:1149:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149:

```

GAATTCGGTC TTCATGGCCT ACTCTGGGTT GCCTGTGGTC ACTTCTGGTT GCCTAGGACT      60
AGAAGGCTCA GATTTTCAGT GTCGGGACAC TCCCATTCCT CATCAAAGAA GATCAATTGA      120
ATGCTGCACA GAAAGGAACG AATGTAATAA AGACCTACAC CCTACACTGC CTCCATTGAA      180
AAACAGAGAT TTTGTTGATG GACCTATACA CCACAGGGCT TTACTTATAT CTGTGACTGT      240
CTGTAGTTTG CTCTTGGTCC TTATCATATT ATTTTGTTAC TTCCGGTATA AAAGACAAGA      300
AACCAGACAA CTCGAG                                     316

```

(2) INFORMATION FOR SEQ ID NO:1150:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150:

GCCACGAAAG GTACCCCTGA ATTCTGGACT CATAAAATCT CTTAGATAAT ACATATTTGT	60
TGTTTAAACC CACTCAGTTT TGCATTGGTT ACACAGCAAT AGAAAATAAA GGAGGCAGAT	120
GAAATTGATG GAGAACAAAT GCAACGAAAA CAGAATACAC AATGCACGAG CCTGTGTCAG	180
GAATGACAGT GCATTCCACG GAAGAGTTGC ACAGAGAGAG ACGCCGCTCG AG	232

(2) INFORMATION FOR SEQ ID NO:1151:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1151:

GAATTCGGCC TTCATGGCCT AGCCTTTAAC ACTTGATATA AAATCCAAGC ATTTTTCAGA	60
CCTCAACCCA GAATAGTAGA TACCTGAAAT TAAGATTCCT ATTGGTGAGA AACAAGATCT	120
GTATATTTCC CTATCCCTAT CCCCAAATGC CAGTGGGTCA TTTTCCCCAT GCCTAGCTCC	180
ATTACAGCT AATATGTGGA TTGAGGCTTT ATTCCAAAAC ATTTAGGTTC TATATCTTC	240
CCTAGCCCTG ATTAGCAGTG CTCATCTTTG AAGATCATTG TGACTTTTCA GACTATTGTA	300
GTGATGGCTC AACCTGACCC CTTCTCCTCC TTTCAGGATT TGGCAGAGAG AACGGCCGCT	360
TCTCGAG	367

(2) INFORMATION FOR SEQ ID NO:1152:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1152:

GAATTCGGCC TTCATGGACA GCACAGTGGC CAAAGAAGGC ACTAATGTAC CATTAGTTGC	60
TGCTGGTCCT TGTGATGATG AAGGCATTGT GACTAGCACA GGCGCNAAAG AGGAAGACGA	120
GGAAGGGGAG GATGTTGTGA CTAGTACTGG AAGAGGAAAT GAAATTGGGC ATGCTTCAAC	180
TTGTACAGGG TTAGGAGAAG AAAGTGAAGG GGTCTTGATT TGTGAAAGTG CAGAAGGGGA	240
CAGTCAGATT GGTACTGTGG TAGAGCATGT GGAAGCTGAG GCTGGAGCTG CCATCATGAA	300
TGCAAATGAA AATAATGTTG ACAGCATGAG TGGCACAGAG AAAGGAAGTA AAGACACAGA	360
TATCTGCTCC AGTGCNAAAG GGAGTCTCGA G	391

(2) INFORMATION FOR SEQ ID NO:1153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1153:

GAATTCGGCC AAAGAGGCCT AGCACTTGTC TCATTTTAAT GTAAAGATTT GCTTCCATTT	60
TCCTACAGGC AGTCTCTCTC TTCCTCACAG TCCCACTGTG CAGGTGCTAT TGTTACTCTT	120
ACGAATATTT TCAGTAATGT TATTTTCTTC TAAGTGAAAT TTCTAGCCTG CACTTTGATG	180
TCATGTGTTT CCTTTGTCTT TCAAACCTCA AGGTTCCCCT GTGGNCCTCT CCCTTACCCT	240
GGGAAGGCCT CTTGGAGACC TTACCCCTTG CTGTTTGGAC TTTGTATACT TFAAATAATT	300
TAATACCCT TAATTACTTA AAAAAAAAAA AAAAAAGCTT TATGATTTTC ATAATTATT	360
GCTGATTTTA ATGGATGTT AATTCAGTC CTGTAGTTTT ATTTTATGTT TAGATAGGGC	420
TGGCAAGGA AAAAGAAAAT AAAGACAACC ATACTCGAG	459

## (2) INFORMATION FOR SEQ ID NO:1154:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1154:

GAATTCGGCC AAAGAGGCCT ACTCCTTCAG ACTACAAGCT CCACAGAGCC GCGGGAGGAC	60
GGTTGCCCTGG TATTATTAGC AAGCAGCAAA TATGGCGGTG GCGCGCGTGG ACGCGGCTTT	120
GCCTCCCGGA GAAGGATCAG TGGTCAATTG GTCAGGACAG GGACTACAGA AATTAGGTCC	180
AAATTTACCC TGTGAAGCTG ATATTCACAC TTTGATTCTG GATAAAAATC AGATTATTAA	240
ATTGGAAAAT CTGGAGAAAT GCAAACGATT AATACAGTTA TCAGTAGCTA ATAATCGGCT	300
GGTTCGGATG ATGGGTGTGG CCAAGCTGAC GTTGCTTCGT GTATTAAATT TGCCTCATAA	360
TAGCATTGGC TGTGTGGAAG GGCTCTCGAG	390

## (2) INFORMATION FOR SEQ ID NO:1155:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 534 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155:

GAATTCGGCC AAAGAGGCCT ACGAATGTGG CCGGGTGGGA CCCGGACATA CGAGAGATTG	60
TCCTCATCGT GGCCATGATG ACATTGTCAA CTTCGAGAGG CAGGAGCAGG AGGGAGAGCA	120
GTACCGTTCC CAGAGGGACC CACTGGAGGG CAAGCGGGAC CGGAGCAAGG CCAGGTCTCC	180
GTACTCGCCA GCCGAGGAGG ATGCCTTGTT TATGGATTTA CCCACTGGCC CAAGAGGCCA	240
GCAGGCACAG CCCCAACGGG CAGAGAAGAA TGGAATGCTG CCTGCCTCAT ATGGCCCAGG	300
AGAACAGAAT GGGACTGGTG GGTACCAGCG GGCCTTTCCT CCCAGGACCA ACCCTGAAAA	360
ACACAGCCAA AGGAAGAGCA ATCTGGCCCA GGTGGAGCAC TGGGCAAGGG CCCAGAAAGG	420
GGATAGCAGG AGTCTTCCCT TGGACCAGAC GCTTCCTCGC CAGGGTCCTG GCCAATCCCT	480
GTCCTTCCCA GAAAACTACC AGACTCTTCC CAAGAGCACC CGAAACGCCT CGAG	534

## (2) INFORMATION FOR SEQ ID NO:1156:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156:

GAATTCGGCC AAAGAGGCCT AATGGATCTA GTCACTTTCA GATTTCAATT TGAGGTTAAG	60
TATATAAAGC ACATCCCAAT TTTATATGCT GCCTTGAGAA AATTACAGGA TGCACGGCAA	120
TTTGTAGGAA TTTCAAATGG GATCATTTAA ACATTGAAA AATTATTTTA AAAACCATCT	180
AGTTTGCTTT TGGATTTTAG ACATTAAAGC CTATGTTGTC TTGTTAACAG GGGTGAATG	240
TATAACCATC AGATTCAGCA TGTGATTTCA CCTTTGAATC TGAGTATTTC TTCCCTATCT	300
TCTTTGAGTC ATTTTGGAG CAGACTGTCA CCAGTATTGA TAACTAAGCA TTAAGGGAA	360
AAGTTGCATT GCAACTATGC ATTGGTTTCC TGGAAGAACT TTCTTTTGT TTTAGTGAAT	420
GAAGAGGCTT GATGGGATCA CTTACTGTAA CTCCTTCTAC ATAAGGACCC CTTCTGCAAG	480
CAGAACACAA AAGAACACGC TCGAG	505

(2) INFORMATION FOR SEQ ID NO:1157:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 441 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157:

GAATTCGGCC AAAGAGGCCT ATGTTATTGG GAAGGACCCA GAGAACAAAA AGTTGAATAC	60
GGAAAAGAAA ATAGGATTG CAAGAAGCAC NTTTTTTTTT TTTTTTTTTT TTINGAGACA	120
AANTCTCGNT TTGCANTCCA GCCTGGGTGA CAAGAGCAAA ACCTNGTNTC CAAGNAAAAA	180
AAAATACAGT TTTGGTGATA ATACAGTTTG AAAGTAATTA GCATGTGGAT AGTCATAGAA	240
ACCACAGGCA TCAATGAAAC TGGCTAGGAG AAAGGACACC AAGAGGAAAT GGCCAGAGGT	300
AACAGGAAAA TCAGGGGAGT GTGGTTCACA GAAGCCTGGG AAGTGCTATT TCAAGAAGAG	360
AGTGGGTGGA AATTGTAAAG TGTCTAATGC TGCTCAGAAG CCAAGCAAGA TAAAGACAGA	420
AGAATCTAGT GGGAACTCGA G	441

(2) INFORMATION FOR SEQ ID NO:1158:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1158:

GAATTCGGCC AAAGAGGCCT AGCAGAACCC GACCAGGGGA GCCTTGCCTG TGTGTTTCAG	60
GTGCTCTGCG ACCACTTCTA TAAAACCTAA AAAAGGAGAT TGCTCTGATT GCAACAGGTG	120
TGGGGGACCA GTATCCCATC CCATTGGCCC TGCCCTCCCA CCTGTAAGGC AGAATATGGT	180
TGGGAAATCA TTGCCATATG CAGAAGGGGT CACTGAGGGG TTTTAAACAA CAGTGACATG	240
CTCAGTTCTC TGGGTTGAGG CATCATCACC CTGGTGGCCA TGTGGAGGAT GGAAGGAAA	300
AGGCATTCTG TTAGAAGACC TCTGCAGGAG TCCAAGGAAG AAACAGGCAA ATCTGCAGGA	360
GGCAGGCATA TCCAAGCTCG AG	382

(2) INFORMATION FOR SEQ ID NO:1159:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1159:

```

GAATTCGGCC AAAGAGGCCT AGCCTCGGTG ATTCCAGTG GAAGAATGTA GGTCCCAATA      60
CCACAAGCAC AGTCATTAGC ACAGATGCTT TTAGGCCAGG AGTTCGATAT GACTTCAGAA      120
TTTATGGGTT ATCTACAAAA AGGATTGCTT GTTTATTAGA GAAAAAAAC AGGATACTCT      180
CAGGAACTTG CTCCTTCAGA CAACCCTCAC GTGCTGGTGG ATACATTGAC ATCCCACTCC      240
TTCACCTCTGA GTTGAAAGA TTA CTCTACT GAATCTCAAC CTGGTTTAT ACAAGGGTAC      300
CATGTCTATC TGAAATCCAA GCGGAGGCAG TGCCACACCG ATCTCGAG      348

```

## (2) INFORMATION FOR SEQ ID NO:1160:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1160:

```

GAATTCGGCC AAAGAGGCCT AGAAAACTG AAAAAATAAG AACTTTAGA GAAAAAGAGG      60
AATCAGTGCA GGCTAGGGGA ATGAACCTGG TAATCCAGTA GTCTTCCCT GCCAGCATTT      120
TGATTGATAA GCTAAGTGTC TGCTTTTCT CATCCCTTAT TTTTGGCAG GAAACAGTA      180
TTTTGATACT TGAATGCCTT CTTTCTATCT TAAGGGAGAA GCCTTCTTAA ACTTCAAGTG      240
TGAAGTAGAT CCTTTAGGTA TAGGATGAAA AATTAAGTGG GACTATTGT GAATTACTAA      300
ATCGCAACTC GAG      313

```

## (2) INFORMATION FOR SEQ ID NO:1161:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161:

```

GAATTCGGCC AAAGAGGCCT AGGAGCCTAG AAAAGAAGAA AGGTCTATTT TTATAAAAC      60
TGATGAAATA CTTGTGGCAG GGAGTCCTCG AG      92

```

## (2) INFORMATION FOR SEQ ID NO:1162:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162:

GAATTCGGCA AAAGAGGCCT AGTGCATAAG GAATCACTGT GTACAACTG GCCAAGTGCT	60
TCTGTAGATA ACGTCAGTGG AGTAAATATT CGACAGGCCA TAACTTGAGT CTATTGCCTT	120
GCCTTTATTA CATGTACATT TTGAATTCTG TGACCAGTGA TTTGGGTTT ATTTTGATT	180
TGCAGGGTTT GTCATTAATA ATTAATGCCC CTCTCTTACA GAACACTCCT ATTTGTACCT	240
CAACAAATGC AAATTTTCCC CGTTTGCCCT ACGCCCTTT TGATACACCA CTCGAG	296

(2) INFORMATION FOR SEQ ID NO:1163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163:

GAATTCGGCC AAAGAGGCCT ATTAAAAATA AGTGTCTAAT ACTGTGTATT CATATAGCCT	60
TTATATCTCA ATACGTGCTT ATCTGTTGGT ATACCTTAGA GAAATAACCC ACCATCAATG	120
AGAAGAAGGA AAGGCAGGAG GAAAAAAGTT TATATAACAC TTAAAAATGG TAGATTATTT	180
GTGGCCATTT GAATTTACTG ATTTGAAGTT CTAAAGATG CTGAGCCATG CCTTACATAG	240
TTATTTTAGA ATCTAAAGTT GTTCTGTATT TGCATAACGT TTCTGTTCTT TTTCTCTTT	300
AAACCCTGAA AGTGATAGAT GGGAAGGAGG AACCAGATAT TTGGCATGGT CTGACAAAAA	360
TTAACTTGTC AACTCGAG	378

(2) INFORMATION FOR SEQ ID NO:1164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1164:

GAATTCGGCC AAAGAGGCCT ACTCCAGGGT ACTTTTCCCC TAGGCCTGAC CTTTGTAGT	60
CTTTTGTCC ANACATATTT AAGACCAGAG GAAAAAAGCA ATTGCTTTAG TTTCTATGTT	120
TGGGTAACAA AATCTACCCA CAGACAAGAG AATAACAAAA ACCAAACAGT ACAGTGGGAA	180
ATATACCAGA AAGGAAAAAA AAGATCATCA CATTAAATGT AAATGAGGTA AATTTTATA	240
ATAAAGAATC TTTTATGAAG AATGCTCAA ACCAAATATT GTACTTTCCA ATTTCTTGGG	300
CACTGGGGAT GCTGAAGTGT AGTTAGATGA GTATATAACC CTATAGGGCT CTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1165:

GAATTCGGCC AAAGAGGCCT AGTCTTCTGC CCCCTATGA AGTTTGAGTT TCAGCCCCAC	60
ATGGGGGATA TGGCTTCCCA GCTCTGTGCC CAGCAGCCTG TCCAGAGTGA GCTGGTACAG	120
AGATGCCAAC AACTGCAGTC TCGCTTATCC ACTCTAAAGA TTGAAAACGA AGAGGTAAAG	180
AAGACAATGG AGGCCACCCT GCAAACCATC CAGGACATTG TGACTGTCGA GGACTTTGAT	240
GTGTCTGACT GCTTCCAGTA CAGCAACTCC ATGGAGTCCG TCAAGTCCAC GGTCTCTGAA	300
ACCTTCATGA GCAAGCCCAG CATTGCTAAG AGGAGAGCCA ACCAGCAAAT CCTCGAG	357

## (2) INFORMATION FOR SEQ ID NO:1166:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1166:

GAATTCGGCC TTCATGGCCT AGACAGGCGG ACCCAGAGAG ACTTGCAGTA CGTGGAGAAG	60
ATGGAGAACC AAATGAAAGG ACTGGAGTCC AAGTTCAAAC AGGTGGAGGA GAGTCATAAG	120
CAACACCTGG CCAGGCAGTT TAAGGGCTAA CTAAAAGAG TTTTTCAT GCTGCAGTGA	180
CTGAAGAAGC AGTCCACTCC CATGTAACCA TGAAAGAGAG CCAGAGAGCT TTTTGACCA	240
TGCATTTTTA CTATTATTTT CCAATACTTA GCACCATTTC ACTAAGGAAC CTTGAATACA	300
ACGAGGATCC TCCTTTGCAT GCGACTGTAG CTGCATTCA TGAATAGTTT GAACCCCTGT	360
CAATGCAATC TCGAG	375

## (2) INFORMATION FOR SEQ ID NO:1167:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167:

GGCTTATTGA TGA CTCTTAT TTTAATTATG TTTTAGCAA TGATAAGTTA CAATATAATA	60
GCTGGAGATA CTTTGAGCAA AGTTTTTCAA AGAATCCCAG GAGTTGATCC TGAAAACGTG	120
TTTATTGGTC GCCACTTCAT TATTGGACTT TCCACAGTTA CCTTTACTCT GCCTTTATCC	180
TTGTACCGAA ATATAGCAAA GCTTGGAAG GTCTCCCTCA TCTCTACAGG TTTAACAAC	240
CTGATTCTTG GAATTGTAAT GGCAAGGGCA ATTTCACTGG GTCCACACAT ACCAAAAACA	300
GAAGACGCTT GGGTATTTGC AAAGCCCAAT GCCATTCAAG CGGTCGGGGT TATGTCITTT	360
GGGGACGTTT TCGAG	375

## (2) INFORMATION FOR SEQ ID NO:1168:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 552 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1168:

GAATTCGGCC	TTCATGTCTC	TGCAATCTGA	AAATAGTGCC	TTTTACCAAG	AAGAGGACAG	60
AATTGGCGTT	TGGAAGGCTG	AGGGTCATGG	TGTAAGGGCT	TTTGAGTCAA	AATCTTGGTG	120
TCAAGCAGAT	GAGGCTGCAA	CACAGACCTG	TGACCAAAT	TGTGTGGAGC	GTGTGGTGGA	180
CACGCAGGGG	ACTGTGCAGA	GGACAGATGG	CCTAAAGCTT	AGCATGGCAC	AAGGAGTGCC	240
CCCCGATGGC	AAGTCTCCCA	GTCAACTCCA	GATCTCTTCA	CAGTAACTGT	GTTTCCTCCG	300
CATTTATTTT	CAACCTGCAC	AGAGGAAGAA	GAGAGGGAAA	CAAGCCCAGG	TGACAAAACA	360
GAGGGTGAAA	TATGTGTGAA	GAGTTCAGTC	AGTGTGTCAC	GAGACCAGCT	GAGTGACCCCT	420
CAAAGCTTAG	AAGGTAGTGA	AAAAGAATCA	CTGCAAGCAA	AGTATAGTGA	GACAAGTGAA	480
GATGACATAG	AGACTGTCAA	GTCAGATTCT	AAAACAACCT	ATGAGTGGGA	AACAGGNACA	540
CAAAAACCTCG	AG					552

## (2) INFORMATION FOR SEQ ID NO:1169:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 566 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169:

GAATTCGGCC	TTCATGGCCT	AGAGCGGAGT	AAATTCTCCA	CAAGCTGGGA	ACAAACCTCG	60
TCCCAACTCC	CACCCACCGG	CGTTTCTCCA	GCTCGATCTG	GAGGCTGCTT	CGCCAGTGTG	120
GGACGCAGCT	GACGCCCGCT	TATTAGCTCT	CGTCGCTCG	CCCCGGCTCA	GAAGCTCCGT	180
GGCGGCGGCG	ACCGTGACGA	GAAGCCCACG	GCCAGCTCAG	TTTTCTTCTA	CTTTGGGAGA	240
GAGAGAAAGT	CAGATGCCCC	TTTAAACTC	CCTCTTCAAA	ACTCATCTCC	TGGGTGACTG	300
AGTTAATAGA	GTGGATACAA	CCTTGCTGAA	GATGAAGAAT	ATACCATATT	GAGGATATTT	360
TTTTTCTTTT	TTTTTCAAG	TCTTGATTG	TGGCTTACCT	CAAGTTACCA	TTTTTCAGTC	420
AAGTCTGTTT	GTTTGCTTCT	TCAGAAATGT	TTTTTACAAT	CTCAAGAAAA	AATATGTCCC	480
AGAAATTGAG	TTTACTGTTG	CTTGATTG	GACTCATTTG	GGGATTGATG	TTACTGCACT	540
ATACTTTTCA	ACAACCAGAA	CTCGAG				566

## (2) INFORMATION FOR SEQ ID NO:1170:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170:

GAATTCGGCC	AAAGAGGCCT	AGGGAGTCAA	TCATGATCNT	TTCATATATG	CTGGCNATAG	60
AAAATGGTCT	CGGTGAAGTA	ATGGTCTGTC	TGTCAAGCAT	GACATCCTTG	CCTGTGTTAA	120
GTTTTTGTTG	CTCTTCTGGG	ATGTTGATCG	TGACGTCTTG	TCCGGGATTG	AGAAGCTTCT	180
GTTGCTCTTC	TGGGATGTCA	TTCATGATCT	CTTCATATAT	GCTGGCTATA	GAAATTGGGC	240
TCTGTGAAGA	AATAGTGTGT	CCAAAACCTT	GGTACAGGCC	CCCTGGGGAG	GGTACCTTTG	300
AAGAACCAGA	AGTTAGATCT	TGTGAAGAAG	AAGAAAGTAG	GCTCGAG		347

## (2) INFORMATION FOR SEQ ID NO:1171:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171:

GAATTCGGCC TTCATGGCCT ACTTTTGGG GACTGGTACT GGAGAAAAAT CTGAGAGCAA	60
AAGTGCTTGG CTAAATTCCT TTTTCTTCT TTTAGTTT GAAATCATGA ATCCTGTTTA	120
TAGTCCTGGA TCTTCTGGG TTCCCTATGC AAATGCCAAA GGAATTGGTT ATCCAGCTGG	180
TTTTCCCATG GGCTATGCAG CAGCAGCTCC CTGCCTATTC TCCTAACATG TATCCTGGAG	240
CGAATCCTAC CTTCCAAACA GGTACACTC CTGGCACACC TTACAAAGTG TCCTGTTCCC	300
CCACCAGCGG GGCTGTGCCA CCGTACGTCC CCCTCGAG	338

(2) INFORMATION FOR SEQ ID NO:1172:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 294 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:

GAATTCGGCC TTCATAATCT CCTGCTCTTG AGAATGTGCC GATATGTCAA AATATCTACT	60
GAAACTGAAG AACTGAAGG ATCCCTACAC TGCTGTAAGG ACCAAAATAT TAATGGGAAT	120
GGCCCAAATG GCATACATGA AGAAGGCTCA CCAAGTGAAA TGGAAACAGA TGAGCCAGAT	180
GATGAATCCA GCCAGGATCA AGAACTTCCC TCAGAGAATG AAAACAGTCA GTCTGAAGAT	240
TCAGTTGGAG GAGATAATGA TTCTGAAAAT GGATTATGTA CCGGGATACT CGAG	294

(2) INFORMATION FOR SEQ ID NO:1173:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 286 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173:

GAATTCGGCC TTCATGGCCT ACATAAAAGA ACGAAAAGGA AGGAACTTCA GTCAACATAT	60
TTTCATTGAC TCCTTAGTAC AAGGGAACCT TAATGACCAA CAGATCCTAG AAGACAGTAT	120
GATATTTTCT CTGGCCAGTT GCATAATAAC TGCAAAATTG TGTACCTGGG CAATCTGTTT	180
TTTAACCACC TCTGAAGAAG TTCAAAAAAA ATTATATGAA GAGATAAACC AAGTTTTTGG	240
AAATGGTCCT GTTACTCCAG AGAAAATTGA GCAGCTCAGA CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:1174:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 421 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:

GAATTCGGCC	TTCATGGCCT	AAATATGAAA	AGACTAGACA	TACAGAGATA	TTTATCATAG	60
CAAAAAGTTG	CAAGTACTGG	GGATTGACAA	AATTATCACA	ATGTTTATAT	TATTATTATT	120
ATTATTATTA	TTATTTAATC	AATCAGTGTC	TTGCTTTGTT	GCCCAGACTG	GTTTCAAATC	180
CCTGGCCTCA	CGTGATCCTC	CCGCCTCAGC	TTCCCAAATT	GCTGGGATTA	CAGGCATGAA	240
CCACCGCGCC	TGGCCTATTG	TTCTGCCACA	TCTTTCTTTT	ATTTTGTAGA	GAGAGTCTTG	300
CTTAGTCCAG	GCTGGAGTAG	AGTTGTGCCG	TCATAGCTCA	CTGCAGTCTC	AATTCTTTGG	360
GCTCAAGCAA	TCCTCCTGCC	TCAGCCTCTT	GAGTAGCTGG	GAATACAGGC	ACACTCTCGA	420
G						421

(2) INFORMATION FOR SEQ ID NO:1175:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:

GAATTCGGCC	TCATGGCCTA	GTGCTTAAAA	GCTGTTCTCA	TAAGAATTCT	ACTGGCCTGT	60
ATCTACCCAA	CCACTTTCTA	TACCTCTCTT	CCAACCAAAA	GTCTTAATAT	GGAATATATC	120
CTCACCACGA	TCCTAATACT	GTCAGTAGCT	GTCCTGCTGT	CCACAGCAGC	CCCTCCGAGC	180
TGCCGTGAGT	GTATCAGTC	TTTGCACTAC	AGAGGGGAGA	TGCAACAATA	CTTTACTTAC	240
CATACTCATA	TAGAAAGATC	CTGTTATGGA	AACTTAATCG	AGGAATGTGT	TGAATCAGGA	300
AAGAGTTATT	ATAAAGTAAA	GAATCCAGGT	GCACTCGAG			339

(2) INFORMATION FOR SEQ ID NO:1176:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

GAATTCGGCC	TTCATGGCCT	AGGGTCACCG	GGTTCCGGGC	TAAAGAAGCC	CCCGCGCTCC	60
CTAGAATCCA	GGAACGGGGA	CTGGCAGAGG	CCTGGGTAGG	AGTCCATTGG	GCTGCTGGAG	120
GGCAGATTGC	CCAAAGGGAG	TCCACCTTGA	AGAAAGGGCC	TCTGCAGTGG	CGTACGGCTG	180
CCTTNTAGGC	CAGGGGTTCC	ACAACCCAGA	TGCTGTTCTC	GTTCAGAGCC	CAGAACATCC	240
TTGAAGAGCT	GCTGCAGGTC	CTTGGATTCC	ATCTTGGGCA	GTTCTCTGTG	GAAATCCTGT	300
CTAAGTCAGA	GCTAAGCATC	CCTTCACCTG	GGGTGCCTGG	CTTCTCAGGG	TCACTGGGCA	360
CTGGGGATGC	CTTACGCCCC	CCATCCTCAG	GTCCTGGTGT	ATCGGCTTTG	CCCTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

```

GAATTCGGCC TTCATGGCCT AAAGAACCCC GTGGTGATGG TGGACGAGAT TATGAGCTCC      60
AGCCCTCCCA AGTTCACCTT CCCTGAAGCA GGCTTACGAA TCATGATCAC CAATAAGTTT      120
GGACCTAGGA CCCGACTACG GATGGCCAGC AGGATCATCA TTAATGAGCG GCAGAGACTG      180
ATCAACTCGG CCAATGGTGT GAGCAGTAAG CCGCTTCAAA ACGGGAGGCA CGAGAACATT      240
GAGAACGGGA ATGTTCCCTGT GGAAAACCCC GAAGACCCTC AGCAGAATCA GGAGCAGCAG      300
CCGCCGCCAC AGCCACCACC GCCAGAGCCA GAGCCGGTGG AGGCTGACTT CCTGTCCCCC      360
TTCTCCGTGC CGGGCTGGAG TGTAGTGGCA TGATCTCCGC TGA CTGCAAC CTCCGCTTCC      420
CGGGACTCTC GAG

```

(2) INFORMATION FOR SEQ ID NO:1178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

```

GAATTCGGCC TTCATGGCCT AGTTGTTGTA AGCATATTTA TGGTAATTTG TTACTGCACC      60
CTTGGGAAAC TAACACACCA AGGTTTCATGG ACAGCATGAA AAAGAAAAAC CATAGGCCAA      120
TATTTGTTAG GAAAAGACAC AAAAGATCTA AACAAATATT AGCTCCTACC CCTCCAAAAA      180
AGCAAATTCA ATCCAGTAAG GCATTTGAAA AATATGTCAT GACTAATGAA CTTATTTAAG      240
TTTACCCAC AATACAAGGA TGGTTTAAAT TTTACAAAAA GTATTCATTT AATTCATCAT      300
ATTGATAAAG GAGGAAATTT AATTAAGATA ATCTCTTGAT TGTCTCTTCA TATCTTTTGA      360
TTATCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1179:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179:

```

GAATTCGGCC TTCATGGCCT AAAAAATACA AAAAAAAAC NNNANNGAAG AAAAAAGAAA      60
AAACTACCAG CCGGAAAATG CATAGTGTTC GCTACCTTAT TGCTTTTAGC ACATCTAGAA      120
AGACACTAAA CCCAGTGAGA TTGCAAGTTT CAAAATATTG TGTGTATAT GGCTTTGCTT      180
AAACGGATAT ATTTGTTTCT GAGTGAAAAC TTTTACGTA GAGGTTTATT TGTAGAGGCT      240
TGTAAGTTA AGTGTAGTT TTAGTGTGTG TGTTAAGTTG TTCTTACCCC GCATTAGCAC      300
TCGAG

```

(2) INFORMATION FOR SEQ ID NO:1180:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 605 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1180:

GAATTCGGCC	TTCATGGCCT	AGCTGGGAGG	TGTAGGTTGT	AGCGAGCCGA	GATCACGCCA	60
CTGCACTCCA	GCCTGGGCAC	TATTGAGCAC	TGAGTGAACG	AGACTCCGTC	TGCAATCCTG	120
GCACCTCGGG	AGGCTGAGGC	TGGCGGATCA	CTCGCGGTTA	AGGGCTGGAG	ACCGGCCCGG	180
CCAACACAGC	GAAACCCCGT	CTCCACCAAA	ACCAGTCAGG	CGTGGTGGCG	CGTGCCTGCA	240
ATCGCAGGCA	CTCGGCAGGC	TGAGGCAGGA	GAATCAGGCA	GGGAGGTTGC	AGTGAGCCGA	300
GATGGCAGCA	GTACAGTCCA	GCTTCGGGCT	CCGCATGAGA	GGGAGACCGT	GGAAAGAGAG	360
GGAAACCGTG	GGGAGAGGGA	GAGGGAGAGG	GAGAGGGGAG	CGATTCTGGT	GTATCTTAAC	420
TTGGATTTCT	ATCCTGTTTG	GGTTTGCTCA	GCTGAATCTA	TAGGTTGTG	TATAATACCA	480
AAGTATTTTG	TATTAGTGGT	TACAACGCAA	AGTTGGATCG	TGAAGTCAAT	TTTGTGGCTT	540
ATGACTAGTA	TTATGATTGG	TTTTTAATAG	AATAGAAAAT	GAAAATATAT	CCCAGGTATC	600
TCGAG						605

(2) INFORMATION FOR SEQ ID NO:1181:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 444 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181:

GAATTCGGCC	TTCATGGCCT	AGGAGAGTGG	TGATGGTGGC	ACAACAATGT	GAATGTAATT	60
AATGCTACTG	AGTTGTATGC	TTAAAAATGA	AAAATTTTAT	GTTATACACA	TTTTATGACA	120
AAAATTAATA	GATGTATTAA	TAAGATTAAA	TGGGTTGTTT	TAATGTTCTG	TIAAAATCAA	180
ACGCTGAGGG	CATTAATAGA	GATTCTTATT	TACCCACATG	TCCTTTTAAA	ACAAGAACCC	240
TCTTTAATAT	GTGTTTTCTT	CTGGTTTATA	GAACATATTT	TAAAACGGGC	TTACTATTCA	300
ATAATATCAA	TTGATTATTG	AGGAATACAA	GTTAATTAAA	TTGTGCAAGT	CAGTTGTTTG	360
GCCTTACTTC	ATGCTTTTGG	TGAACACTGA	TGCAGTACTA	GAATTACTCT	TTTTGATAAA	420
TTGCCAAAAG	CAGGCCACCT	CGAG				444

(2) INFORMATION FOR SEQ ID NO:1182:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:

GAATTCGGCC	TTCATGGCCT	ACTGTTTC	AAAAA	AGGAATCCAA	AGAAAAAAT	60
ACATCACCTG	CAAAAGGTGA	AGAGAGAAAG	GAAGCTTTTT	CTCTAAAAAT	GGTGCAGCTA	120
TCCTCTGAAC	CAATTCCTT	CGGTTTAATG	TACCTGTATC	TTGGGGTTTT	TTTCCACTTA	180
ATTTATCCTG	GAGCTCTTTC	CATAACAACA	CTTGAAAGC	ACTCTCATCC	TTTTTTCCT	240
GCTGAACAGA	ATTCCACTGT	GCGGATGGAA	CTCGAG			276

(2) INFORMATION FOR SEQ ID NO:1183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183:

GAATTCGGCC TTCATGGCCT AGCATGTTGA GATAACTTCT GGGATTAAAA TAGTCTTTTG	60
CTTTACTTTT TTGGTTTCCT AAAACAACCT TATTGACTTT TAGTCCATAC TGTTATATTT	120
TTGTCTTAAA GAAAATTTAA ACTACAAATA CCAAAAGAAA ACATTTTAAA TTTAGGGATG	180
AGACTTTGGT GTATCGTGGG TCTAGGTTTA ATGAACACAT CTGGGGTTAA GTTGGCATT	240
CTTCACATCT CCACACCCAC ACCAACCATC ACAGCCCCC AAAATCTCGA G	291

(2) INFORMATION FOR SEQ ID NO:1184:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 364 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184:

GAATTCGGCC TTCATGGCCT AAGGGGAGGC AGAGGCTGTA GTGAGCCGAG ATCGCGCCAC	60
TGTACTCCAG CCTGGGCAAC AACAGTGAAA CTCCGTCTCC AAAAAAAAAA AAAAAAAAAA	120
AAACTTGTT TTCCCTTGT AATTGGTTT TCCTAAAAAT TTTAGTATTT CTAGAGAACA	180
TTTTTTTCCC AGGCTGTAA CTGTTCTGA AAACAATCTT ACAGTAAGTA TAATTTAAAA	240
CATACCTCCT TTCCAAAAG CTCATTGTGT ACCAAGCAAG CACGTCTGTA GTTAAAATTT	300
GTTACTGAGG TTGGTTCAAG GTAAGAAGAA TGGAGAATAT TTACAACATC TTCAAATTC	360
CGAG	364

(2) INFORMATION FOR SEQ ID NO:1185:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 384 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185:

GAATTCGGCC TTCATGGCCT AGAGTAAAGG TGGGATTACA GGTGTGTGCC ACCACGCCTG	60
GCTAATTTTT TTGTATTTTT AGTAGAGACA GGGTTTCACC ATGTTGGCCA GGCTGGTCTT	120
AAACTCCCGA CTTCAAGTGA TCTGTCCACC TTGGCCTCCC CAAGTGTGGG ATTACAGSTA	180
TGAGTCACCA AGCCCGGCCT GTATCCTTTA TTAAGAGAAA CAAACAAACA AACAAAAAAC	240
CCTTTTCTTG ACTGACATCC CTTTCAGCT GCAGCCCTGT TTCTTTGCTA CCTTGTAGC	300
AAAATTCAC AGGTTGTTC TACTTGCTGT TTCCAGTTTT TTGGTTTTTT TCCTTCCTA	360
GGAAATGAGA GGCCCATGCT CGAG	384

(2) INFORMATION FOR SEQ ID NO:1186:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 344 base pairs  
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

CTCGAGGGGG TCAATTCCTG GGGGCTCTTG ATATTGCTCA GAGCTCTGGA GAAGTGTTCA	60
TCCACTACGC TGCTGATGTC CCCTTGGAAG TAGGTGAAAA GGACACACCG GGAATTCCAT	120
TCCGTCTTTA TAGGCTTCTG TTTGCCTTTG GGCAGCCGGA TGGCAGTCTT CTCATTCT	180
TCCATTGTGA GTGAATGACA CAGGTGACAG CTCTTAATTC TGGACCATCA CCTGATTCTG	240
TGGCTGGGAA AAGATGGCCA GAGCTGCCTG GCTCACTTCA GAGCAGGTTA GTGCTTGCGG	300
AAGCAGGAGC TGAGGATTG TACTAGGCCA TGAAGGCCGA ATTC	344

(2) INFORMATION FOR SEQ ID NO:1187:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 0 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

(2) INFORMATION FOR SEQ ID NO:1188:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 394 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

GAATTCGGCC TTCATGGCCT AGCGATGGCT CACATCAGCA CTTTGGGAGG CTGGGGCAAG	60
AGCATCACCT GAAGCCAGGA GTTCAAGCCC AGCCTCGGCA ACACAGTGAG ATCTCATCTC	120
TACAAAAAAT TTAATAATGA GTTTGGCGTG GTGGTACATA ATCGTGTAGT CCCTGCTACT	180
TGGGAAGCTG AGGCGGAAGG ATCACCTGGG CTCAGAAAGT CAAGGCTGCA GTGAGCTATG	240
ACTGCACCAC TGCACACCAG CGTGGGTGAC ACAGTGAGAG CCTATTAAAA AAAAAACAA	300
AACCAATAAA CCAAACAAAC AAAACCTAAA ATACAAAAAA TTAGCTGGGC GCAGAGGCAC	360
GGGCCTGTAG TCCCAGCTAC AAAGAAACCT CGAG	394

(2) INFORMATION FOR SEQ ID NO:1189:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 355 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:



GAATTCGGCC	TTCATGGCCT	AGGAGATGTA	CCTGATAGCA	ANTTACTGCN	TCTCAGCTCA	60
AAATTCACCC	TTCAAAACCT	TTTCTACACC	AATGGATAGA	ATTCCTGTCA	GCATTCTCT	120
TNNAACGTTG	AACACAATGT	TAAGCTTCCT	CAGTGAAGGA	CCCTAGATGG	ACATTGCAGG	180
AAGAAGGGAC	TTCCCTGTG	GGACCTAGAG	GTTGTACCAG	CATTGTAGGT	GGGAGGACAT	240
CCACTGGCTC	TTTGCAATAG	CCATGTGTCC	ATAAAGTATA	GTTTCTCAGC	AATCTCATTG	300
CCCAGTCTAG	GCNTGGCAAT	CACCCTCCTG	CAGCCTTATC	AACACATTGC	TCGAG	355

## (2) INFORMATION FOR SEQ ID NO:1190:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 451 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

GAATTCGGCC	TTCATGGCCT	ACTTGGAGAG	CCTCATGCCG	TCTCTACCTT	CGCACACTGG	60
TCAAGTATCT	GCTGAGCTTC	TTGGCCGCAA	GGATGCAGAA	ATAGGCTGAG	GGTCCATGGG	120
AAGAAAGACA	CAATGAGGCA	GTAGGAGGTG	GGAAGAAAAG	AAGACAGACT	TTCAAAATGG	180
AATTAGGCAC	TGGGGAGAGA	TCAGTTTCCC	CACATCAGGG	AGAAGAAGGT	ATAGGTGGGG	240
AAGGGGGTGG	CCAGGAGCAG	AAGGAAGAAG	ACTCAAGATG	GAAAGGGAGC	CGCTGTGCCT	300
GTGGCAATAC	CACCTGGAGA	GGTCGACTTC	ATACCTTCAA	GCCTTTTCCC	CTGGGGTTTT	360
GATTGTGTCT	GTGCCCCCTT	TCTTGTCCCT	TCTGCAGATG	CCCAGTAGGG	GCTACCTCAT	420
CCTCGTGCTG	TTCTTGTGTA	GCATTCTCGA	G			451

## (2) INFORMATION FOR SEQ ID NO:1191:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

GAATTCGGCC	TTCATGGCCT	AACAGAGATG	GCTTAGACTT	CAAGACTTGA	TTTGTAGCTA	60
TGTTCTACCA	GCCTCCAGCT	GTCTATGCGT	TGGCCTCAGC	CATGTCCCAA	ACGTGGTCCC	120
ACACATGTTT	ACACATTGGT	CCCACATATG	CTGAGAGTAA	TTACTTTCTA	TTCATCAGAG	180
GTCAGAATAG	AATAAAGAAT	GTTTATGTCA	TAGTATGACT	TTTTAGGTGA	TTTGAAAAG	240
CAAGAATATG	AATTCTATGA	AAAAAATCTA	TTAGGAAATT	ATGGAAATGA	CAGAATGCAG	300
AGGTATTTGG	AAATAGAAAA	AAACGGGTG	ATCTCGAG			338

## (2) INFORMATION FOR SEQ ID NO:1192:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192:

GAATTCGGCC TTCATGGCCT ACCGACCACA TTTCCTCTC ACCGCTGTAG GAATCCAGAT	60
GCAGGCCAAG TACAGCAGCA CGAGGGACAT GCTGGATGAT GATGGGGACA CCACCATGAG	120
CCTGCATTCT CAAGCCTCTG CCACAACCTG GCATCCAGAG CCCC GGCGCA CAGAGCACAG	180
GGCTCCCTCT TCAACGTGGC GACCACTGGC CCTGACCCTG CTGACTTTGT GCTTGGTGCT	240
GCTGATAGGG CTGGCAGCCC TGGGGCTTTT GTTTTTCAG TACTACCAGC TCTCCAATAC	300
TGGTCAAGAC ACCGCACTCG AG	322

## (2) INFORMATION FOR SEQ ID NO:1193:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:

CTCGAGGGGT GCTGAGCATT TTTTTCATGA ACCTGTGGTC ATTCATATGT CTTCTTTTGA	60
GATGTGTCTA TTCAGGTCCT TTGCTTATAT TTTAATCAAG TTATTTGTTT ACTATTGAGT	120
GAAAGAGTTC TTTATGTATT TTGGTTATTA GCCCCTTAAC AGATATATGT ATAGCTTGCA	180
AAATATTTT CCCAGTCTGT GGGTTGTCTC TCAATTTGT TAATCTTTT TTTTTTTTTT	240
GTTGCTGGGC AGAACGTTT TAGTTTGATG CAATCCCATC TGTCTATTTT TGCTTTTGTT	300
GCCTGAGCTT TTGGGGTCAT AGCCAAAAA TCCTTGCCCA AACAGCAGTG TTATGGAGCT	360
TTCCCTTAA GTTTTAGGC CATGAAGGCC GAATTC	396

## (2) INFORMATION FOR SEQ ID NO:1194:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

GAATTCGGCC AAAGAGGCCT AGGTAGGGAA TGCAAGCAGG CACTGGGGAG AAATNGGGCN	60
GGAAAGTAGT CTCATGGAAT AAGCCTTTT TACTTTAATT CAGCATTTAT TGCTTTGATT	120
AAAAAATAAT TTCAAAAATC TTTCTGCTTA CTGAATAAAG AATGCNTTGG AAAGAACAAG	180
AATGGATAAA GGAGAGTGCT TAGGAGGCTC CTGGAGCAGG AAGAGGTGGT GGCGAATAGA	240
CTACCGGAGC AGTGGAGGGT GGAGATGGAG AGACGTGGAA AGACTGAAGA CATATCCTCG	300
AG	302

## (2) INFORMATION FOR SEQ ID NO:1195:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:

GAATTCGGCC AAAGAGGCCT ACTCAGAAAC ACAAGGGAAA GGACAGAAGA GGGACCGGGG	60
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```

AGGAAGAGAG TGAGGAGAGA GGTATGTAAG GTGTTTAGTA CACAGTAAGT GCTCAAAATG      120
TGTCCACTCC CTCTGCCAGG AGAGAGCAGA AAGTCAGAAA GGAGAGGACA CCAATAGAGA      180
GGAAAGAAAG GGGCCAGGCG CCGTGGCTCA TGTCTGTAAT CCTAGCACTT TGAGAGGCAG      240
AGGTGGGAGG ATCGCTTGAG CCCGAGAGTT CGAGACCAGC CTGGCCAACG TAGAGAGACC      300
CTGTCTCTAC AAAAAATACA AAAATTAGGC TGGGTGCGGT GGCTCATTCC TGTAAATCCA      360
GCACTAGGGA GCTCGAG                                     377

```

## (2) INFORMATION FOR SEQ ID NO:1196:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 341 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196:

```

GAATTCGGCC AAAGAGGCCT AGTGTACAC AGCACTCACA CTAAAGATGA AAAATTCCAT      60
TAGCTCATCC TGGTTCTTCT GCTTACTTAC CTAATCATCT GTTTATGATT TAAAAAATA      120
GGGTTACTGT GAAGAGAGTG CTTGTGTGTG AGACAGAGAG GGAGGGTTGT TTTTCAAATG      180
TATAGAATAT ACCAATGTAG TTTTGGTTG GGTATTTTTT TAAATCATGA CTTTATTAAA      240
TTTACTTAAT TAATATTCAT TTTTATCCTT TTTTATGTT TTTAAAGTTT TTATTATTTA      300
TTAATTTATT TGAGATAAGG TCTTGCTCTG TCACCCCTCGA G                               341

```

## (2) INFORMATION FOR SEQ ID NO:1197:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 363 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197:

```

GAATTCGGCC AAAGAGGCCT ACAGAAATTT AAATTAATCT CTCATCCATT GGCTTTTGCT      60
ACTTTAGGTT AATATTAAAA TATAACATAC ATTTTGGGG TTTATGCTGT TAGCTCCAAA      120
CCAAAAGATT TTGGAAATTT ATTTTGGAAA TTTTGTGTTT AGAATATGAA TAAATCTGCT      180
TATTCAGAAA AATTAAACCT TGATAACTTG GGACCTCCTA TTCCTGTATG TTCTCTGACA      240
TACATTGAGG GATTTGGCTC TCTTTTGTTC ATTTGTTTTA CTAGTCAGAC ATTCCTTTGG      300
CTGCCCATAC TTAATTCTGT TGGGTGTTTC CGCCCCGCC CTCAGCTTCT GAAGCTACTC      360
GAG

```

## (2) INFORMATION FOR SEQ ID NO:1198:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 169 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1198:

```

GAATTCGGCC AAAGAGGCCT ACCTGACAAG TGTTAAGCAG ACACATAGAG AAAGTTAAAA      60

```

TTTGTTTGA GTCCTTAAGA GTGAAGTTAA GGAATAAGAC CTATAAATGG ACACCATGTG 120  
 ATGAGTGCTG TCATCAAAGC ATGGACAATG GGCTTTGAGA GTACTCGAG 169

(2) INFORMATION FOR SEQ ID NO:1199:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 82 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1199:

GAATTCGGCC AAAGAGGCCT ATAAAAACGT TATGTTATTT TTGGAAGTTT TTCTCATATC 60  
 TCTGTTGCCA GGGTCACTCG AG 82

(2) INFORMATION FOR SEQ ID NO:1200:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 349 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:

GAATTCGGCC AAAGAGGCCT AAGGTGGTGC AGTGGGGACA GCACCTCCGA CCCTATGGGG 60  
 TGTACCTTCA AGTAGCAAGG CTGACAATGA TGTCTAGAAA GGTCTCCACT TCTGCCTGAG 120  
 TTTTGCCAAA CCCAGTGGTC TATAGGGATG TGGCAAAAGA ATGACCTACC GCAGTGTGAT 180  
 TATCAGTGTT TTTTAAAATA AAGAGCACAG TTTTGCCTTT AAAATAATTC ACATCAACGG 240  
 TATTTGGGAG AACATGGAGC TGGCATAACA TTGGCGTAGA AAGCAGGGCC AGGCCCCACCC 300  
 ACGGGGCCCT CGTGTGGGA CGGGTGCCTG AGCCCCTGAG CCCCTCGAG 349

(2) INFORMATION FOR SEQ ID NO:1201:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 318 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1201:

GAATTCGGCC AAAGAGGCCT AGGGGAAGAG GTTCAAATGT GGGGCTGGAC GTGGCCTTGG 60  
 GGTGCGGATC CCTCACAAAN ANTTCGTCTT CATAATCCTN ATGAGGTNGC GGGGAGTCCC 120  
 GCAGGACAGA CTCAGATATT CGGAGGGAGA TCCTCCCTGG AGTGCTCGGG GCCCCAAGAG 180  
 GTGTGTCTGG GTCAGAAGTG CTGCATAAAC TTGGAAGACT CTGCTGTTTT TGATAGTGCT 240  
 TCAGGTTTGC AAAATCAGGG GCTGAGGATT CCTCAGGAAG GNTGTCTCTT CTGGCTGCGT 300  
 GGGCCCCACTT TGCTCGAG 318

(2) INFORMATION FOR SEQ ID NO:1202:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202:

```
GAATTCGGCC AAAGAGGCCT ACTACAAGAT AACTTCCCAG TACTTTAAAA AAGTCTCAAA      60
GTCATAAACA AGAAAGAACT GAGGGACTAT TGCATATTGG AGCGATCTAA AGAAGTATTA      120
CAATTTGTGG AATTCTTGAT TAAATCCTGG ACCAGCAAAA GGACATTAGT GGGAAAAATTG      180
ATGAAATTCA AATGAGATCT TATATTGAAG TTAATTGTGT CAGTGTACAT TTCCTGGTTT      240
TCATAATTGC AAGTGATTAT GTAAGGTTTG TTAATATTGG GAGCAACCTC GAG              293
```

(2) INFORMATION FOR SEQ ID NO:1203:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1203:

```
GAATTCGGCC AAAGAGGCCT AGTTTTGAGA AATAAATGGG ATAGCACGTG TAAATCACAT      60
AGAACAGTGC CTGGCACATA AACACTCAAT AAATGTTAAT TGATACTATA ATTTATCTAA      120
TTTATCTTTA TTCCTCCTGC AAAGATTCCCT TGGACTATTT AGAATCTCTG GTCACCTCTAA      180
TGAGATGGTG GTGTTTTTTT TTGGTTTTTT TTTTTTTGGC TTAAAGAAGC TTCTGTAGAT      240
CAGCTGTAAT TACTGCTAA ATAATCTCTT GTAGTTATTA TTTTCAGTCT ACTTGGGATC      300
CTCGAG                                         306
```

(2) INFORMATION FOR SEQ ID NO:1204:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 598 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:

```
GAATTCGGCC TTCATGGCCT ACGAGATAAT ACTGGAGTCA ACTGTACATT AACTTGCTTG      60
GAGGGCTATG ATTTCACAGA AGGGTCTACT GACAAGTATT ATTGTGCTTA TGAAGATGGC      120
GTCTGGAAAC CAACATATAC CACTGAATGG CCAGACTGTG CCATTCTAG AAAAACGTTT      180
TGCAAACCAC GGGTTCAAGT CCTTTGAGAT GTTCTACAAA GCAGCTCGTT GTGATGACAC      240
AGATCTGATG AAGAAGTTTT CTGAAGCATT TGAGACGACC CTGGGAAAAA TGGTCCCATC      300
ATTTTGTAGT GATGCAGAGG ACATTGACTG CAGACTGGAG GAGAACCTGA CCAAAAAATA      360
TTGCCTAGAA TATAATTATG ACTATGAAAA TGGCTTTGCA ATTGGACCAG GTGGCTGGGG      420
TGCAGCTAAT AGGCTGGATT ACTCTTACGA TGAATTCCTG GACTGTGTC AAGAAACAGC      480
CACAAGCATC GGCAATGCCA AGTCCTCACG GATTAAGAAG AGTGCCCAT TATCTGACTA      540
TAAATTAAG TTAATTTTAA ACATCACAGC TAGTGTGCCA TTACCCGATG ATCTCGAG      598
```

(2) INFORMATION FOR SEQ ID NO:1205:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 325 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:

```
GAATTCGGCC TTCATGGCCT AGTCTAACCA TTATGGAAAAG AGAACAGTCC CTTCAATATC    60
CCACTATCTG TAGGGCATGA CACAGCCAAA TCCAAGTCAG ACCATCCCTT TGATCAATTT    120
CTACCAATAA CTGTTTATTG CACACCCTGT ACAGAGCACT GCGACCAAGC TGTTCCCTGA    180
CCTTCTCCTT TCCTAGTGTT TGGTCACAAC ACTCCCTAAA GCCCTAACTC AAGTTCTTGG    240
GATGATACCA CCAGAAGAGG GAAAAAAGGA GCCGTCTTCC TGAAGTCACC TGGGTAGAGC    300
AGCTGGGGAT TTTCCCTCC TCGAG                                         325
```

(2) INFORMATION FOR SEQ ID NO:1206:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 126 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:

```
GAATTCGGCC TTCATGGCCT ACCCACTGCA ATGATGTTTA CCAGCACTAT TAACTTACTG    60
CAGACTCTTT GTCTGTCTGC TGGAGTTCAT GCTGAGATCA TGCAGACCGA AGCCACCAGA    120
CTCGAG                                         126
```

(2) INFORMATION FOR SEQ ID NO:1207:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 349 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:

```
GAATTCGGCC TTCATGGCCT ACTAATGTGG TTTTGTGAAG TTGGTGTCAA ATTTACGAGC    60
ATAAAATTGT TTGTAATATT CCCTTATATT CTTTAAAAC TGCTATAGGA TCTGTACTGA    120
TGTTCTGTTT CATACCTGAT GTTTGTGTC TTCTGTTGT CTTTTTNGT TGTGTTGTT    180
GTTGTGTGTTA GTTTTGATAG AGGCTTACAA ATTTTGTGCT TAATTGATT TCTCTATTTT    240
CCTCTTTTAT TTCTTCTTTT AATAATTCCT TCCTTCTTGC TTGGCTTCA TTTTGCTCNT    300
TTTTAGTTTC TTTTGGTAAT TCAATTACTG GTTCGACATC TTTCTCGAG                    349
```

(2) INFORMATION FOR SEQ ID NO:1208:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 198 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:

GAATTCGGCC TTCATGGCCT AGAGTGATTG TGGGTATATA TAGAGCAGAT TGTTTTAAAA	60
AGAGACTTGT GAGCCAAGAC TAAATCCTGG TTTTACTATT TATTAATCTG TATAGCTATA	120
GCCAAGCTAT TAAACTCCC TTATTTCTCA GTTTTTCGT TCATGAAGTG GGTACAGTAC	180
CTAAAGGTTT ATGTTGAG	198

(2) INFORMATION FOR SEQ ID NO:1209:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 546 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:

GAATTCGGCC TTCATGGCCT ACAGGGGATG ATTCAGTCCG ATACAGTCAG GGAACCGTAC	60
ATAGAATAGA ATGACTAGAG TATAATCTGC AAAGGATGGA ATGGCAGAAG TAGTCAGAAg	120
AGGTATGCAA TGGTTGGATC AAAAAGAGCT TTGTATCCAG CGTCACAGGG CCTCAAATTG	180
TACTGTAATC ATATGCTTTT TACCTGTTCT CTGGCATTTA AATATTCTTG TAAAGAGCTA	240
AGCCATTACT GATAAAATGT CTGTTGTGTA CAGTTGTACA AATTAAATTC AGTCACAAAA	300
CTGAAAGAAC AGCAGTGGGA CATCTATCCT AGTGAAAGTT AGAATACACT TTTGTGGTCT	360
TTAATAACAG AGTTGATTGT TTACCTTCTC CTTTGTTAG AAGACTGGTA TGGGGATTGT	420
TTGGAATGAA GAGGTAGGAG AGAGAAATAA TTCAATTCTG TATTCTCCCA TCATCTTTAT	480
ATTTGAAGTG AGAAATGTGT GTTCTATCA TTCATTCAAA TTATTAAACA AAAACAGAGA	540
CTCGAG	546

(2) INFORMATION FOR SEQ ID NO:1210:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

GAATTCGGCC TTCATGGCCT AAAGATATTT TAGCTAACAG GAGAACGGCC CAAGGGGGCA	60
TTCTCATGTT AATTACCAA TGTGGGCTTG TCAAAATCAA ATAGCTCCAG GAATAATGCA	120
AGTAGCTCTG CATCATTATA TTGTTTGGCC CTCAACCCAA TATTAGCTAC TTTTAAAAT	180
CTGGGTTTCAT TAGGCTTTTA AATTTAAAAG AGGAATCACT ATTGGGAGCC TTCAGAAGAA	240
TGTAAAGCAC AGCCAGCAGT GCCAGAGTTT AATGTAAATG ACATTAAAAA ATAGTTTCAT	300
ATCACACACT CGAG	314

(2) INFORMATION FOR SEQ ID NO:1211:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

```
GAATTCGGCC TTCATGGCCT ACGCATGAAA ATTACTTAAA CGTTGCACAC AACGTTTCAC    60
AAAATCTTTT GTGAAAGAAG AAAAGGAAAT TCAGTGTGTG AGTCTCAGCA GGAGTTAAGC    120
TAATGCAGCT TAAAATAATG CCGAAAAAGA AGCGCTTATC TCGGGGAGAG GTGCCCCTGA    180
TTCTCTTCCT GTGCCAGATG ATTAGTGCAC TGGAAGTACC TCTTGATCTG GTACAGCCTC    240
CAACCATCAC CCAACAGTCT CCAAAAGATT ACATTATTGA CCCTCGGGAG AATATTGTAA    300
TCCAGTGTGA AGCCAAAGGG AAACCGCCCC CAAGCTTTTC CTGGACCCGT AATGGGACTC    360
ATTTTGACAT CGATAAGAC CCTCTGGTCA CCATGAAGCC TGGCACAGGG CTCGAG    416
```

(2) INFORMATION FOR SEQ ID NO:1212:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

```
GAATTCGGCC TTCATGGCCT AAGGGAAGCC TGAGCAGGCC AGTGGGCTGG GCGCAGAGCG    60
GGGTGTGGGG GCCAGGCTGT GTGACCATGA CAGAAAGAAC CCCAGCTAGC CCAGCTTGCT    120
CCCTGGGGCA GGAATCACCA ACCCCGTGAG GGCCTGGGGT AACAGTGGTC CAGTGGCCAA    180
GACCAGCAGT CGCCAGGTAC CCACTGGCCA CAAACCAACC AGAATACTTG CCGCTGGAGG    240
CCCCAGCCCA GGGTCAACCC AGCCGCCGCC CTGTCTTTGT GTGTGGGTGG GTCAGCCCCA    300
TCCCTGCCTT TCGGACTAAA AACTCGAG    328
```

(2) INFORMATION FOR SEQ ID NO:1213:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

```
GAATTCGGCC TTCATGGCCT AGAGGCATTA ATATATTTTA CATTACTGGG ACCATAGTAC    60
AGAAATTTCT AAATGGTTTG TAAAATAACT TGTTATTTGT GTTGTTGTAA AAGCAGTTAA    120
TACAATGGAA AAACCTGTAA TAAGAAGATA CAGTTTAACT TCAAAAAGTT TACCCAAGGT    180
AATTATGAGT ACTACCTGGC AAAACTTCAC GGAAGCTGTG GTATCACTTT TATGATGGAA    240
GAATGGTGTG TGCATTTTGT GTAAAAGTAC TTGCGGCTGG GCGTGGTGGC TCATGTCCCA    300
GTGCTTTGGG AGGCGAAGGC AGGTGGATCA TCTGAGCCCA GGAGTTCGAG ACCAGCCTAG    360
GCAACGTGGC AAGAGCCTGT CTCTCCAAAA CCTACAAAAT TTAGCCAAGC TTGGTGGTGT    420
GAGCCTGTAG TCCCAGCTAC TTGGGAGACT CACGCTGGAG GATCTCTCGA G    471
```

(2) INFORMATION FOR SEQ ID NO:1214:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 585 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

GAATTCGGNC	TTCATGGCCT	AGTCAATGAA	AGAATTCCTG	CAGTTTCATT	ACCTATGAAN	60
ATTGTGGGGT	CCTCTGTGG	GACATGAAAG	GGGGACAGAT	AGATGAATAT	TGTTTGGATT	120
TTTGTCCTC	AGTGCCATCC	ACAGACTCCA	GAAGGGATCA	GCTATTTGCT	GAACAATCTT	180
TCAGTTCTCA	TAGAGCCCTG	ATATGTTTTC	AGGGTCCACA	AATGCCTGTG	ACGGTGGCCT	240
CAAGAACCCA	GTGTCCCCTT	GTAGGTGGGA	TAGCATACCT	CTTAAAGGTC	AGCATGAGAT	300
TCCACCCATG	TCATCCCCAG	CATTGGTGGG	GTCAGCAGAT	CCTCTCTCTG	GGGTTTCNTT	360
TTCTGCTCAA	CCTCCCTGCT	TTGATGGACT	GCACAGACAA	GCCCCATCTT	GGTGGAAGGG	420
TCTCCCCATG	GGCTGTCCTG	GAGGGTCACT	CCCACAGATA	TGCCCCATCC	TGGTGAAGG	480
GTCTCCCTGG	GGGCTGTCCT	GGAGGGTCAG	TCCCACAGAC	AAGCCCCATC	CTGTGGGAGG	540
GTCTCCCCGT	GGGCCATCCT	GGAGGGTCAG	TCCCACAAAC	TCGAG		585

(2) INFORMATION FOR SEQ ID NO:1215:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 529 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

GCGATTGAAT	TCTAGACCTA	CCTCGATAAC	CCAAGAGACT	ATGAGCAGAC	ATGACATCAT	60
TGCATGGGTT	AATGACATAG	TATCTTTAAA	CTACACAAAA	GTGGAACAGC	TTTGTTTCAGG	120
AGCGGCCTAT	TGCCAATTCA	TGGACATGCT	CTTCCCTGGC	TGCATTAGTT	TGAAGAAAGT	180
AAAATTTCAA	GCAAAGCTGG	AACATGAATA	TATTCACAAT	TTTAAACTTC	TGCAAGCATC	240
ATTTAAGCGA	ATGAACGTTG	ATAAGGTAAT	TCCAGTGGAG	AAGCTAGTGA	AAGGACGTTT	300
CCAGGACAAC	CTGGATTTTA	TTCAATGGTT	TAAGAAATTC	TATGATGCTA	ACTACGATGG	360
GAAGGAGTAT	GATCCTGTAG	AGGCACGACA	AGGGCAAGAT	GCAATTCCCTC	CTCCTGACCC	420
TGGTGAACAG	ATCTTCAACC	TGCCAAAAAA	GTCTCACCAT	GCAAATCCCC	CCACAGCAGG	480
TGCAGCTAAA	TCAAGTCCAG	CAGCTAAACC	AGGATCCACA	CTTCTCGAG		529

(2) INFORMATION FOR SEQ ID NO:1216:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:

GAATTCGGCC	TTCATGGCCT	ATCGGCCCCG	CGGCGGAGGG	ANANGATCCT	CCACAGTGCT	60
CTCTTCAGTN	CCCCTTCAAA	TGCTGTTTTA	TCTCAGCGGA	ANGTACTACG	CCCTGTATTT	120
CCTCGCCACG	CTCCTGATGA	TCACGIATAA	AAGTCAGGTG	TTCAGCTATC	CTCACCAGTA	180
CCTGGTCCTC	GATCTTGCTC	TGCTGTTTCT	GATGGGGATT	CTAGAAGCAG	TTGCGTTAAA	240
CCTGGATACA	CCCCTGATGC	CCGATGTCCA	GTGAGGAACC	AAGGCTGCGG	GGAAGGGTGG	300
CCCCACCCCT	TCCTCTTGTT	ATCAGGCTC	AGACACACTA	GGAGGATGGA	GGCGAGTTCT	360
CTCAGCTGCC	CATCCCCTG	AGGGGTGCCC	GGCCGTCAGT	GTCTTGTTGTG	CACTCACGTC	420
CCAGAACCTC	TAGAGCTTGC	CCCCAGGGC	GGGCACTGCT	GGGAGGGTGC	GAGCACCCTC	480
GCGGCACAGA	GGCCCGTTTC	TTGNTGATC	TTCTGGGGCC	TGGGCCTGCC	CTGAGGTGGT	540
GGGGACAGGG	TGTGGCCTGG	CCCTGCTGGG	GGCTGCTAGG	CCAACGGGAC	CCTCCCCAAG	600

CCGCCCGCAC ACTGCAGGTG CCTCGAG

627

## (2) INFORMATION FOR SEQ ID NO:1217:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 486 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:

```

GCAAAATATTG AACATAATCT AAAATCTGAG GAAGAAAAGG ATCAGGAAAA GCAACAGATG      60
TTTGAAAATA AGCTTATAAA ATCTGAAGAA ATTAAAGATA CTATTTTGCA AACAGTAGAT      120
TTAGTTTCTC AAGAGACTGG AGAAAAAGAG GCAAAATATTC AGGCAGTTGA TAGTGAAGTT      180
GGGCTTACAA AGGAAGACAC CCAAGAGAAA TTGGGGGAAG ACGACAAAAC TCAAAAAGAT      240
GTGATCAGCA ATACAAGTGA TGTGATAGGA ACATGTGAGG CAGCAGATGT GGCTCAGAAA      300
GTGGATGAAG ACAGTGCTGA GGATACGAG AGTAATGATG GGAAGAAGT GGTGGAAGTA      360
GGCCAGAAAT TAATTAATAA GCCCATGGTG GGTCTGAGG CTGGTGGTAC TAAGGAAGTT      420
CCTATTAAAG AAATAGTTGA AATGAATGAA ATAGAAGAAG GTAAAAATAA GGAACAAGCA      480
CTCGAG                                         486

```

## (2) INFORMATION FOR SEQ ID NO:1218:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:

```

GAATTCGGCC TTCATGGCCT ATGAATTCTA GACCTGCCTC GAGATCTGAG CAGGAATTAC      60
TCTCAGATGA CGTTTCATCT GTTTCACAAA TTCAGTCTCA AACTCAGTCA CCGCAAAATG      120
TCCCTGAAAA ATTAGAAGAA AACCATGAGC TGTTTTCCAA GAGCTTCATC TCCATGGAAG      180
TGCCTGTCAT GGTAGTAAAT GGCAAGGATG ATATGCATGA TGTGAAGAT GAGCTTGCTA      240
AGCGAGTGAG TAGGTTAAGC ACAAGTACAA CCATAGAAAA CATCGAGATT ACTATTAAGT      300
CTCCAGAGAA AATCGAAGAA GTCCTGTGAC CTGAAGGCTC CCCTTCAAAA TCGCCATCCA      360
ACAAAAAGAA GAAATTCGCG ACTCCTTCTT TTCTGAAAAA GAACAAAAAA AAGGAGAAAG      420
TTGAGGCCTA AATAAAGTCT TTTTATAATT ATTATTATAA CAATGTGACA TTGCACATCT      480
AAATACCACA TCTCGAG                                         497

```

## (2) INFORMATION FOR SEQ ID NO:1219:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 524 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

```

GAATTCGGCC TTCATGGCCT AAAAGATGGC GGAGGTGCAG GTCCTGGTGC TTGATGGTCG      60

```

```

AGGCCATCTC CTGGGCCGCC TGGCGGCCAT CGTGGCTAAA CAGGTA CTGC TGGGCCGGAA 120
GGTGGTGGTC GTACGCTGTG AAGGCATCAA CATTCTGGC AATTCTACA GAAACAAGTT 180
GAAGTACCTG GCTTCTCTCC GCAAGCGGAT GAACACCAAC CCTTCCCGAG GCCCTACCA 240
CTTCCGGGCC CCCAGCGCA TCTTCTGGCG GACCGTGC GAATGCTGC CCCACAAAAC 300
CAAGCGAGGC CAGGCCGCTC TGGACCGTCT CAAGGTGTTT GACGGCATCC CACCACCTA 360
CGACAAGAAA AAGCGGATGG TGGTCTCTGC TGCCCTCAAG GTCGTGCGTC TGAAGCCTAC 420
AAGAAAGTTT GCCTATCTGG GCGCCTGGC TCACGAGGTT GGCTGGAAGT ACCAGGCAGT 480
GACAGCCACC CTGGAGGAGA AGAGGAAAGA GAGAGCCACT CGAG 524

```

## (2) INFORMATION FOR SEQ ID NO:1220:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 444 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

```

GAATTTCGGC CTTATGCGC TATGATAAGT TCATTCTGGC TGGAGTATGG TGGAGAGCCA 60
TGGAGTACTG GTAGGTGAGG GGCTGGAGGA GGGATAGGTT GGAGATGTTG AGAAAGGCTT 120
TAAAGATCGT GGTGAGTTGT TTGGGTTTGT GTTGCTGTG AGGAGTCATC AGAGGTTTAA 180
ATGCAGGAAA GTGGTTTGTG CTCTATACTC CAGCAGCAGA GGTGGTTGA GTGGTGCTCA 240
AACTTTGTTG TGTATTGGAA TCATCTGAAG AGCTTATAAA AATACCAGTA CCCAGGCTAC 300
AAACAGTAAA ATCAGATTTT CTGAAGGAGA GGCCAGATA TTGGATTTT GATAATTTCC 360
CAGGTGATTC CAGTGCGTAT CTGAGTTTGA GAACTACTCT TTTAGAGGGG TCTGATGGAG 420
TAAGGAATTC AGAGGCCACT CGAG 444

```

## (2) INFORMATION FOR SEQ ID NO:1221:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

```

GCTTGAACAA CACAGGTTTG AACTGTGCAG GTCCACTTAT CCATGAGTAT TTTCAACCAA 60
ACTAGTATCA AATATACAGT ATACGCGGGA CTTGAAACCC ACGTGTAAGG AGGACGAAGT 120
TTTCGTGTAA GTCAGCTCCG AAGCACTGAC TTTGGGACTT GAATTTGCAC AGATTTTGAT 180
ATGAAGTGGG GAAGGGGGTA ACTTGGTACA AATCCCCTGC ATATACTGTG GGATGACTCT 240
AGTTTGATTC TGGAGTGATA TATGGAAGAC ATAATTCTTC CCATAAAAAA TCATAATCTT 300
GGTAGTCTAT CATAGTCTAG CATTAGAGC ATGAACTTTG GAGCCGTCCT CGAG 354

```

## (2) INFORMATION FOR SEQ ID NO:1222:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

```

GAATTCGGCC TTCATGGCCT AGCTAGTTCA TGCTTGCCTT GAAAGAGTGG TCGTTTGCGC      60
TGGGTATCACTA CTGTGTAGTA TTGGGGATAC TTAGGTGAGA AAAAACTTA ACGCTAGAGA      120
CGTTCACGCA CTAGTGGAGA AGCCAGGATT GTTGCCCTAG AGTTACAGTA GATAAAAGTA      180
CCTCAGAGAA CTGCGGGGGC TCCCAACCTG GACGCTTGCA CCGGAGTATT AAATCCAGCT      240
AGAGAATGGC ATGTGCAAAG ATACAGAGCT TTTAGAAATT GCCTGCATTC CTTGGCCCCA      300
TCCTCACTCG AG                                     312

```

## (2) INFORMATION FOR SEQ ID NO:1223:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 371 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:

```

GAATTCGGCC TTCATGGCCT AATAAAAACT GGCTGGGCGT GGTGGCGGCA CCTGTAATTG      60
CAGCTATTTG AGAGGCTGAG CCAGGAGAAT CGCTTGAACC TGGGAGATGG GGGTTGCAGT      120
GAGCCGAGAC CGCCCCATCG CACTCCAGCC TGGGCAACAA TAGTGAAACT CCGTCTCAAA      180
AAGAAA AAAA GTTTCCTTAG AATGGAAAAT ATTCAATTCAT GAGCTCTTTT GGCAATCCGT      240
CATCAGTATA TTCTGAAAAC CAATAAGATG TTGCCAAGTT GGGGGCGAGA GCTATGTAAT      300
GCAAGGCATA TGCCTGATGA AGTATACAAA TACACCTGAC CAGAACTTT GTCTCCCAA      360
TAAGTCTCGA G                                     371

```

## (2) INFORMATION FOR SEQ ID NO:1224:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 404 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224:

```

GAATTCGGGC TTCATGGNCT AAAGAAAAGT GCTGTAAATG AGGATGTGGC TTGCTGGGCA      60
ATAATCATTG TAGAGTGGTA CACCCAGTGC CTTACAGGA TGCTTGAATA CTGCCTGCAA      120
GCCTCGTGTC ATTAGCCAG TAGGCATATG ATAAGCCTCT GGTTCATCATT TCCACTGTTA      180
AGAGTTAGTG TCAGATATGG AGCACCAATA GGCTTGTAAG TGAGAGCATC CCTCAAAGTT      240
GTCACCTTAG GAGACTCTGA TGACCATGAT GCTGCCATTG TCCAAATGTG CACTCATCTG      300
TCTTTTGGGG AGTGATTCCC GACAATTTAT AGATTACAAG AGAAAAGCAG TCTGTATTTT      360
CATCAAATGA TAGTTTAAAT GGAAAATGAA TCAGAAGTCT CGAG                                     404

```

## (2) INFORMATION FOR SEQ ID NO:1225:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 395 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225:

GAATTCGGCC	TTCATGGCCT	AGTTGGGGTT	AATATGGCA	CCTAACTTAT	AGAAGAGGAA	60
ACCAATTTAG	AGACATTAAA	ATACTTGTTT	AAGGTTACAC	GGCAGGGAAA	AGGCAGAGTC	120
AGGATCTGTA	TTCTGTAGTC	TGAATCCAAA	GCGAATCCAA	AACTCTGAGG	TGCTNTGCTC	180
TGCTACCTGC	TGATGGTTCT	GCTGGGGGAT	GCTCAACCAC	CAGATGTCTT	ACTTGGGAAC	240
TGCACTGGAG	GTCGAGGGTC	TGCATTCTCC	TTCTGTGCGTA	AAATCACAAAC	GTCCCCATCT	300
TTCAAGCCAT	AAGAAGCCAA	TGATCTGTGG	TTGCTGTGTA	GAGGTCTTTC	CGCATAGACG	360
ATCTGGCTCT	CGGCTGCGGG	GATGCCAGAC	TCGAG			395

## (2) INFORMATION FOR SEQ ID NO:1226:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 284 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:

TCAAAGGTCC	TTTTGTGGAA	GCGGAGGTGC	CCGATGTTGA	TCTGGAGTGT	CCTGATGCAA	60
AGTTGAAAGG	GCCCAAGTTT	AAGATGCCTG	AGATGCACTT	CAAGGCCCCC	AAGATCTCCA	120
TGCCTGATGT	GGACTTACAC	CTGAAAGGCC	CCAAAGTCAA	AGGGGATGCG	GATGTGTCGG	180
TGCCAAAATT	GGAGGGAGAT	TTAACAGGCC	CCAGTGTGGG	TGTGGAGGTG	CCTGATGTTG	240
AGCTGGAGTG	TCCTGATGCA	AAGTTGAAAG	GCCCTTGTCT	CGAG		284

## (2) INFORMATION FOR SEQ ID NO:1227:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 718 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:

GAATTCGGCC	TTTATGGCCT	AAGCAGACGG	GCAGTAGGTC	CCAGAGTTAT	ACTTCGGAGC	60
ACATGTTCAA	GAGGGAAATG	ACGACCGGCC	CCCACGGTCC	TGGGATGCAG	GTGTGAGGAC	120
TGAGAATGCT	GGACGGGGTG	TGGTCGAGGC	ATGGTCAGGG	TGGCCCCGAG	CTGTGCCCA	180
CCCCAGGGAT	GCAGCAAGGG	TGCTCTGTGC	AGGACCCCGA	ACTTGGGCTC	TGCCCCATTT	240
CAGTGTCTGT	TGCATGTCAC	GCTGGCATCT	TCGGCATGTC	CACAGTTTGT	CACCCCCCAT	300
TTGGAGAAGC	TGCAGCGGAA	GATGGTTTCC	TCTGTGCCTT	GCAGGCAACG	TCATCCATCC	360
AGATCCTCCC	AGTGCCTTGC	CCGAATCGAN	CTGTGCGGTA	CACTCCTCCA	NACCGCGGAA	420
GCCGAGCATG	CGGCACACCA	CGTCTCCGTC	CTTCTTGTC	CAGCCGTCGT	CACACACAGT	480
GCCCCAGCGC	CGGTCGTGGT	ACACTTCCAC	GCGGCCCTCG	TGCGGACCTG	AGCCATTCAC	540
CAGGCGGATC	ATCATCGGGG	CCTCCACGCC	ACTGGCATCC	CCAGCTCTGT	CTCCTTTCTC	600
TCCTTTCTCT	CCTTTTGGGC	CTCGGTCACC	TAAAACAGAG	GAGGAAACTG	GCATTAGAAA	660
TGAAAGAAA	TCCTAATTGT	GAATAAAATA	TTACCTGCAG	GAGATTGATG	AACTCGAG	718

## (2) INFORMATION FOR SEQ ID NO:1228:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 389 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:

GAATTCGGCC TTCATGGCCT AGCTGGGTTG ACCCTGCAGA GGCCAGAGAG CCGAGGGGCC	60
ATGTGTGCTG GCATGGGGCT CCCTGCCCCCT TTCTGAGGCT CAGCACGGAG GGGAGAAACC	120
CACATTTTCA GAGGGAACCA GCAGCAGAGC AGAACCAGTA ACCAAGATCC CGGCAACCCC	180
TTGTGCTGAC CCCACACACG CTTCCCTCTT TCCTGGCCAG GCCACTCCAA AGCTCTGTGC	240
ACACAGACAA TAGACATCAG GACTTTCATC TTCACTCGTC ATCTGGCAGC AGAGAGCCTG	300
CAGGGCTGGG CTGCAGGGAG AAGAGTTCCT TTCCTCACGC ATCCAGGCAA GGGGAGAGCA	360
GCTCTGTGCC TGCCACTGGC CCACTCGAG	389

## (2) INFORMATION FOR SEQ ID NO:1229:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1229:

GAATTCGGCC TTCATGGCCT ACACAAACAT GATTTTATTT TATTATTTTA TTTTATTTT	60
TTATTTTATT TTGAGATGGA GTCTCGCTCT ATCGCCAGG CTGGAGTGTA GTGGCATGAT	120
CTCGGCTCAC TGCAAGCTCC GCCTCCTGAG GCGGGAGAAT TCCTTGGGCC TGGGAGGCGG	180
AGGTTGCGGT GAGCTGAGAT TGCCCCATTG CACTCCAGCC GAGGCAACAA GAGCGAAACT	240
CCTTCTCAA AACAACAAA CAAACAACAA CAACAACAAA ACTCTCGAG	289

## (2) INFORMATION FOR SEQ ID NO:1230:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 600 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1230:

GAATTCGGCC TTCATGGCCT AATGTGTTTT ATGAACGATA GATCACATCA GAACTCCTGT	60
GGGGAGGAAA CCTTATAAAT TAAACACATG GCCCCCTTAG AGACCACAGG TGATGTCTGT	120
CTCCATCCTT CCCTCTCCTT TTCTGTCACC TTTCCCCCTA GCTGGCTCCT TTGGACCTAC	180
CCCTGTCCTT GCTGACTTGT GTTGCAATTGT ATTCCAAACG TGTTTACAGG TTCTCTAAG	240
CAATGTTGTA TTGTCAGGCT TTTCTGAATA CCAAATCTGC TTTTGTAAA GCGTAAAAAC	300
ATCACAAAGT AGGTCATTCC ATCACCACCC TTGTCTCTCT ACACATTTTG CCTTGGGGA	360
TCTGGTTGGG GTTTTGGGTT TTTGTGTTT GTTGTATTATT TGTTATTTTA AAGGTAAATT	420
GCACTTTTAA AAAAATAAATT GGTGACTTAA ATATATTGTC TTTTCTTCTC ACCTGCACTT	480
AGAGGAAATT TGAACAAGTT GGAAAAAAC AATTTTGTGTT TCAATTCTAA GAAACACTTG	540
CAGCTCTAGT ATTCATTGTA GTCTTCCTGT TTTTCCTGTA CCGGGTTATC CTGCCTCGAG	600

## (2) INFORMATION FOR SEQ ID NO:1231:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1231:

GAATTCGGCC	TTCATGGCCT	AGGAGGGCCA	CATCTGCCAN	AGCCTGGAGT	CTGCGAAGGC	60
CGGGACCCGG	TTCCCCGGCC	CACAGTGGGG	GTGTGCAAAC	CCGAGAGAAC	TGGGTTGCAA	120
ATTCTGAAG	AATCAGCATC	ATGTTTGGCA	GCTGAGTATT	GGAGCCAGGA	GCCTGCCATG	180
AGGTTTTGAG	AACAGAGTGC	TGTTTTAGAG	CTGGCAGCAG	CATCTCAGCC	CAAGAGAAGG	240
TTATATTCCC	AGAGGATGTC	AGTCCCAAGG	ACCAGTAGCT	GCCATCAGTT	TGGATTCTGA	300
AAACTAAGTG	GCATCAACAC	TGGGTGTAGA	AACATGCTTG	CCTTATGTAT	CAGAGGACAT	360
GCTCAGCAGA	TCCAAGAGAT	ATATTTGGCA	ACTTTTCTA	GAAAAGGCAC	CTGCCCTCGAG	420

(2) INFORMATION FOR SEQ ID NO:1232:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 602 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232:

GAATTCGGCC	TTCATGGCCT	ACCACCCGCG	ACAGTTTCCC	AGCAGGGCTC	ACAGCAGCGT	60
TCCGCGTCAT	GGGGATTGG	CAGCGTCTGC	TGCTTTTTGG	TGGGGTGTGC	CTCCGGGCTG	120
GTGGCGGGGC	CACTGCCCCG	CTTGGGGGAA	GCCGAGCGAT	GGTTTGTGGG	CGCCAGTTGT	180
CTGGCGCCGG	GAGTGAGACC	CTAAAACAAA	GAAGAACACA	AATCATGTCC	CGAGGACTTC	240
CAAAGCAGAA	ACCGATAGAA	GGTGTTAAAC	AAGTTATAGT	TGTGGCTTCT	GGAAAGGGTG	300
GAGTCGGAAA	ATCTACTACA	GCAGTGAATC	TTGCACTTGC	ACTAGCAGCG	AACGATTTCGT	360
CCAAGGCCAT	TGGTTTGCTA	GATGTGGATG	TGTATGGACC	TTCAGTTCCA	AAGATGATGA	420
ATCTGAAAAG	AAATCCGGAA	TTATCACAGA	GCAACCTAAT	GAGGCCTCTC	TTGAATTATG	480
GTATTGCTTG	TATGTCTATG	GGCTTTCTGG	TTGAAGAAAG	TGAACCAGTA	GTTTGGAGAG	540
GCCTTATGGT	AATGTCGGCC	ATTGAGAAAT	TGTTGAGGCA	GGTAGATTGG	GGTCCACTCG	600
AG						602

(2) INFORMATION FOR SEQ ID NO:1233:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 571 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233:

GAATTCGGCC	TTCATGGCCT	ACTANACCTG	CCTCGTAGTC	CAGAAAGATC	CCCACGCGCC	60
TGGGTGGGTC	CCGGAGTGGA	GCCAAGGCC	GTTCCGAGGA	NTTGTAATAG	CTCCCCAGGA	120
AGACCAGGAT	CCAGAAGCCG	TTGCCCGCGN	ANAGCTCGCC	CTTCTCCTTC	CTGTTACAGT	180
TCTCCTTGCA	CACCCCCAGG	GCCAGCTGG	TGCGGTCCCC	AACCTCCACC	TCCCAGTAGT	240
GGCGGCTGAG	GTGAAGCGCT	CCTGGCCCAG	CACGCAGGGG	CCGGGGTCAA	AGCGCTCTGG	300
GCTGTCCGGC	ANGGCCGTGC	GTANGTCCCC	CCGCTGCACG	CGTCCGCCTG	TCTTCAGACA	360
GGATCAGCTC	AGGGTTGGCG	GTGTCCGGGT	CCAAGGTCAC	GTCCCCTCGA	AACCTCCGCA	420
GTGTTTNTAC	CAGTCCCGGG	ACCCTGCACA	CGGTCTCTAG	CTCCATAGGC	ACAACCTNTG	480
GGGGCTGCAG	CTTCACATCC	TGGACCCTGC	NCAGGGCGTC	CTTGATGTCC	TGCAGCAGCC	540
CCAGAGCAGG	CAGCTGGCAG	CGGCCCTCGA	G			571

## (2) INFORMATION FOR SEQ ID NO:1234:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 631 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234:

```

GAATTCGGCC TTCATGGCCT ACTTAATTTA TAGTCTTTT CTTGTGAAAT GATCATTGAA      60
GTAGTTACTA ACAGGTAATG AAATAAAATA CCAATTTTGC TAGTGAAAAA TAGTTTTCAA      120
CTGAGAAAAG CACTTGGCAG AAGACCTACA AACATGCAGG CTAATGCTAC ACTCTATTGC      180
AGCTTCAAAT AAGTTGTTTT TGATGCCTTT TGAGAAGAAC AAATAAGAT GAAAATAATT      240
CCTTGAACAT TTATCAGCAT TGCTGTTTAG GTACCCATTA GAAAGTGATT AACATTGAT      300
ACCTACCCTT TCCAAAACAC AAAATCACTG GCAAGCATCA TCACACACTC CTAAACCAGC      360
AACATCTGAG AAGCACAATA CACCTTCCCT TTTGTCTAAT AACCTGTGGG TTAGTTATTG      420
GAACTGCAAG GCTTACAAAC TCCTCCCCTG TCCTTTATCC TTATGTAAGC TTGCACATTC      480
TCCAGGAATA GCTATTTTCA AAGGTAATTT CAAAAGAATT AATACAATGA ATTGTTCTTG      540
GCAGTTTGGG GGAAAATATT GACGATATTA AAATTTAAAA AATGCCTGCC TGACACATAT      600
AAGGCCTCCC CAGTCCCTCA TACAACTCGA G

```

## (2) INFORMATION FOR SEQ ID NO:1235:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235:

```

GAATTCGGCC TTCGTGGCCT AAGGACAGTG TATAAAAGG CAGCGTCACA CAGGTGGGCT      50
CTGGGGTCCT TGGTCCATTA GGAGATGGCC TTTGCCCTCAG GAAGGAAGGC TTCCCACTAC      120
TTTGCCAGCT GCTGCTGTGA GTAAAGGAGT GTCTCAAGGT ACTTGATGAC GTGGTTCTTG      180
AAGTCCTTGG ATTTCTCTTT CTCAAACCGT ATCACTTCTT TTCGGACCAC TGTGAAATC      240
CTCTCGAAGT CCCTTTCATA TTGAGTCACC CGAGAGTCCC ACTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1236:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 537 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236:

```

GAATTCGGCC TTCATGGCCT AGGCTGGCGG GGTAGGGGTT GGTGGTAAG GCTTGAGCAG      60
AAGGTTCTAG ATGCATTGAG GAGATAAAGA TGCAATTGGG GTTATTGCAC TTCTCCTAGA      120
AACATAAACA TTGACTTCCT TTTGTGGAAG AAAAATGTTA TGTTAGCTAT TTGACGTTTC      180
AGGAAGGGTG GCTTCAGCTT GGNATTNGG GATGTTTGTG TACANGTGGC CAGGCTGCTT      240
TCTGGCTTGG AAGACTATTG TTTCTTGGGA ATTGTCTGTA TCAGACATCA TGGGAGCAGA      300

```



TCCAGGGCGA CATCAAAGGG AACATGATTN NCNNAGGACC AGAGGGGCTT GGATGCAGAT	360
GATCATCATC TGGGCACTGN TGGATACTGA GTAAGCCCCA GCTGCACCCC ACCTCTGCGC	420
TCTGAGCATG GGAGGCAGCC TGTGCAGCTA TAACTCAGCC TGACTTTTTT CTTCCCTGCA	480
TACTCTTGAA ATACACTGGA GATGAGTAGG GCGGAGTGAG CTGCACACCA GAATAAG	537

## (2) INFORMATION FOR SEQ ID NO:1237:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1237:

GAATTCGGCC TTCATGGCCT ATCTCCANAT AATTNGATC ATAGGCCGGA GTGAGTCATT	60
CCACCTGCAC CTTTCTGTAC AAATACTAAT TCAATTTTAA GTCTTAAGTC ACTTTTAA	120
TATATATGAT CTTCTGCTCT TCCCCTCTCC TCCCNNTCT ACTGCTCTCC CATTTCCT	180
TGCTGGGAGT AGCCACATGC TTTTGGCCCC CCAACCCTTG TATATGGGGA CAGTGGGGTC	240
AGTGCAGCTA CCCTTTCTTT CCCTCCTGCG GAACAGCGGA CCCAGCAAGA GCATCCACAT	300
CTCGAG	306

## (2) INFORMATION FOR SEQ ID NO:1238:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238:

GAATTCGCCT TCATGGCCTA ATTTTCATGCC CCATATTTGG CATATAGTGG AAGGAGAAAG	60
GTAGTATTTT TGCAGTATTT AATAACATTG AGCCTTGAAG CTGTTTGGCA AAAGGTAAGT	120
TTCTTTGTG GCTTTGCTGA AAAACAAGGC ATAGATTTAC ATAGATACGT GTTTAATTCT	180
CTGCTTCACT AAAGAAAGCA AATGCCTATT AAGCCACTTC AGTTGGGATA ATCCCTGATT	240
ATTGTGAGAT TGAAATTACT TTGTCAATT TACAAATAGT TTTTATCTTT CCATTACAT	300
ATTTACCATG ACAACTCGAG	320

## (2) INFORMATION FOR SEQ ID NO:1239:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239:

GAATTCGGCC TTCATGCCTA CAGCGATGAG TGCACGAGTG AGATCAAGAT CCAGAGGAAG	60
AGGAGATGGT CAGGAGGCTC CCGATGTGGT TGCATTCGTG GCTCCCGGTG AATCTCAGCA	120
AGAGGAACCA CCAACTGACA ATCAGGATAT TGAACCTGGA CAAGAGAGAG AAGGAACACC	180
TCCGATCGAA GAACGTAAAG TAGAAGGTGA TTGCCAGGAA ATGGATCTGG AAAAGACTCG	240

GAGTGAGCGT GGAGATGGCT CTGATGTAAA AGAGAAGACT CCACCTAATC CTAAGCATGC 300  
TAAGACTAAA GAAGCAGGAA GACTCGAG 328

(2) INFORMATION FOR SEQ ID NO:1240:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

GGGGATCCTT TTATTTTAAT CACAAAAATG CTGAAAATTT TGGGTTGCAA TTCAATCCA 60  
CAGTAAAGCA TGGGCATTTT TTTTTTTTTT TTAAATCAGA GTGAACTGCC TCGCGTCTTT 120  
CTTTTAAAGG GTTACACTGT ATGTGTTCTG TGTTTTATTT AACTGTTCCC CTCCTGAGGG 180  
GCATTCGGCT TGTTTGAGCT TTTCTCCCTC TTGCTGACAG TGCTGCAGTA ATCATTCTTG 240  
TCCATTTTAA TCCCTATGTA TTACACGGT ATTCTCGAG 279

(2) INFORMATION FOR SEQ ID NO:1241:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 445 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

GAATTCGGCC TTCATGGCCT ACGGAAAAGG AAACCTTGGT GGGATTGCTG TGGATGACAT 60  
TAGTATTAAT AACCACATTT CACAAGAAGA TTGTGCAAAA CCAGCAGACC TGGATAAAAA 120  
GAACCCAGAA ATTAAATTTG ATGAAACAGG GAGCACGCCA GGATACGAAG GTGAAGGAGA 180  
AGGTGACAAG AACATCTCCA GGAAGCCAGG CAATGTGTTG AAGACCTTAG ACCCCATCCT 240  
CATCACCATC ATAGCCATGA GTGCCCTGGG GGTCTCCTG GGGGCTGTCT GTGGGGTCGT 300  
GCTGTACTGT GCCTGTTGGC ATAATGGGAT GTCAGAAAAGA AACTTGTCTG CCCTGGAGAA 360  
CTATAACTTT GAAGTGTGG ATGGTGTGAA GTTGAAAAA GACAACTGA ATACACAGAG 420  
TACTTATTCG GAGAGCATTC TCGAG 445

(2) INFORMATION FOR SEQ ID NO:1242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

GAATTCGGCC TTCATGGCCT AATCATGCCT CTGCTTTTG TCACCTAATA CGTGACAGAC 60  
TTCTTGCCAT ATGTGGAAAT AGATAACTCT TTCATTATTC TTAATAATGG ATATTTAGAT 120  
GGCTTCCATT TGTCCTGTT ATTGTTGTAA CATATATTCT TGCATACATT TCCTTTCATA 180  
CTTACTCAAT TATTAGCTGA ACTTTGGAGT AAAATCACTA AGTAAATACG TTTTAGGCTT 240  
TTGCTATGTG TTACAAGATT TCCTGTCAGC AATTTAAGAT ACTTTTATTG CTCCTCACAG 300

CCTTGCCAGA ACTCATTGGG AACTCGAG

329

## (2) INFORMATION FOR SEQ ID NO:1243:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

```

GAATTCGGCC TTCATGGCCT AAAAATAGTA AATTCACGAGT TTAGACGAGG      60
GAATTTAATT CCTATTTTGT CCATGTTGGT GATGTACTGT ACTTCCCTTC CTTTCTCTG      120
CATCCCCCAT CACCTCATAG AAGACTCTTT GTTGATCATT GTATGTTAAT AATGTATAAA      180
ATGGCTATCT TGTAAAGCGTG CTGTCCTGGT ACTAGTGTAG CGACTTTTTT TCTCCTCTT      240
CTTCTAGTAC ATATTGATAG GTATAACATA ATTAAGGTTT AAAAAAATT AGACATAGTT      300
ATTGAGATT AGGACCAGTA AGGATAGAAC TTTCTCTTAT TTATGAAAAA AAATGCTAAT      360
AATTTTGGGG CAGTTTTC CTTAATTAT TTTTTCAT TTCAAGTTTA ATTTTATTT      420
AGCTGATCTC GAG                                         433

```

## (2) INFORMATION FOR SEQ ID NO:1244:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244:

```

GAATTCGGCC TTCATGGCCT ACATGACTGA GTATATTACC TCTGTTTGAG AGAGAACCAT      60
TTTCTCAGA AATTCATATC CTACCGTCT GCTGTTTTC ATGATAATTG TTTTCTCCT      120
AACATTATAT TTCTGTCITT TAGATTTTAG TATTCACCT TTTAGAATAC ATTTGGATG      180
ATGAAGTTGT TTTTCTTATT TCTCCTACCC CCTTTCCTTC ATCTCAGACA TTATTCCCA      240
GCTTTCTTTG TTTCAGCTTT TTATTATGAA AAATGTCAA TGTGCAGAAA AATGGAAGA      300
ACAGTACAAC ACACCCCAA TCTCGAG                                         327

```

## (2) INFORMATION FOR SEQ ID NO:1245:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245:

```

GAATTCGGCC TTCATGGCCT ACTGAGAATC TTCACCATTA AACTTAGGAG TGTTCTACAA      60
AATAGTGCTT AGAACAGCTA TTGATACTCA AGAGGGCTGT TTAAGTAGCT AGAAAAGTCT      120
AACCTAAAT CCCATTGTG ATTAGATTAT GCACTGATGA AAAAATGTTT AATGCCGTTA      180
AAAAGAACTT ATTACATTAT ATTCTTCAG GCCATGGTAA AGTTACAAAT TTGAACCTCA      240
TAGGCTGTGT GTGTATTGT ATGTGTGTAT TTTCTTTCT TTTATTGGCA GTCTCAATAA      300

```

TTGTTAAGCC ACACACTGCA CAGTATACAC ACACACTGCA CACCACACAC ACACCACAGA	360
NTGCACACCA CACACAGCAC AACCACCCAC ACTCGAG	397

## (2) INFORMATION FOR SEQ ID NO:1246:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 440 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

GAATTCGGCC TTCATGGCCT AGTGGGCAGA TCACCTGAAG TCAGGAGTTT GAGAACAACC	60
TGGCCAACAT GGTGAAACCC TGTCTCTACA AAAAATAAAA AAATTAGCCA GGGGTGAGGG	120
CAGGTGCCCTG TAGTCTTAGC TACTTAGGAG GCTGAGGCGG GAGAATCACT GGAACCCACG	180
GGGCGGAGGT TGCAGTGAGC CGAGATCACA CCAGTGCACT CCACCCTGGG CGATAGAATG	240
GGACTTTTAA AAAAAAAAAA AAACGCCTCA CACGGTTTAA GGTGCTATTA ATACAGTAAG	300
AAACAAATAA ACAAGCTCA TTGCCCTTGA TGGACTTTAA AAAATGATCC AAGTATATGC	360
TGTCTGTAAG AGATACACCC TAGACTCAAA GACACAAATA AGCAAATCAA AGGATGAAAA	420
AGATACACTA TATGCTCGAG	440

## (2) INFORMATION FOR SEQ ID NO:1247:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

GAATTCGCCT TTNATGGCCT AGCCNAACAA AATGGCGGCG GCAGCGGTGT CGTTTTGTTT	60
CCGGGGNTCC TGCGGCGGTG GCAGTGGTAG CGCCCTTTGA GCTGTGGGA GTTCCAGCA	120
GCAGTACAG TGACGACTAA GACTCCAGTG CATTCTATC GTAACCGGC GCGGGGAGC	180
GCAGATCGGC GCCCAGCAAT CACAGAAGCC GACAAGGCGT TCAAGCGAA ACATGACCGC	240
TGAGCCCATG AGTGAAAGCA AGTTGAATAC ATTGGTGAG AAGCTTCATG ACTTCCTTGC	300
ACACTCATCA GAAGAATTG AAGAAACAAG TTTTCCTCCA CCACTTGCAA TGAATCAAAA	360
CACAGGTAAA TTGAAAAGA ATGTGCTATA CTTCTAGTC TTTTCTCTAT TTTTCTTAA	420
CACCTATGGA GGTAACCATT TATTTTATTC AGAGAGCACA CTCGAG	466

## (2) INFORMATION FOR SEQ ID NO:1248:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

TTTTGTTTTG TTTGTTTTG TTTTGGTAG AGTTGGAGTC TTGCTGTGTT GCCCAAGCTG	60
ATCTCCAATT CTGACCTCA AACAGGTCTC TCACCTTGGC CTCCCAAAGT GCTGGGAATT	120

CAGGGGTGAA CCACCTCACC CAGCCAAGAT CACATTTTGA ATCTAATTTT TTTTTTTTGA 180  
AACAGTGTCT CGAG 194

## (2) INFORMATION FOR SEQ ID NO:1249:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 523 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

GAATTCGGCC TTCATGGCCT ACCTGTGCAA GAACATGAAA CATCTGTGGT TCTTCCTTCT 60  
CCTGGTGGCA GCTC<sup>^</sup>CAGAT GGGTCCTGTC CCAGGTGCAG CTGCAGGAGT CGGGCCCAGG 120  
ACTGGTGAAG CCTTCGGAGA CCCTGTCCCT CACTTGCACT GTCTCTGGTG GCTCCATCAG 180  
TGATCACTTC TGGACCTGGA TCCGGCAGCC CCCAGGGAGG ACGCTGGAGT CGCTTGCTA 240  
TATTCATTAC AGTGGGATCA CCAACTACAA CCCCTCCCTC AAGAGTCGGG TCACCTTTTC 300  
AGTAGACACG TCCAAGAACC AGCTCTCCCT GAAGCTGAAG ACTGTGACCG CTGCGGACAC 360  
GGCCGTGTAT TACTGTGCGA GATTTAGTGG TTATTATACT AACCTTCCT ACTACTACTA 420  
CATGGACGTC TGGGGCAAAG GGACCACGGT CACCGTCTCC TCAGCCTCCA CCAAGGGCCC 480  
ATCGGTCTTC CCCCTGGCAC CCTCCTCAA GAGCACTCTC GAG 523

## (2) INFORMATION FOR SEQ ID NO:1250:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

GCCAGAGGGA TGACCGGTGG CTGCTGGTGG CACTCCTGGT GCCAACGTGT GTCTTTTGG 60  
TGGTCCTGCT TGCACTGGGC ATCGTGACT GCACCCGCTG TGGCCCCCAT GCACCCAACA 120  
AGCGCATCAC TGACTGCTAT CGCTGGGTCA TCCATGCTGG GAGCAAGAGC CCAACAGAAC 180  
CCATACCCCT CGAG 194

## (2) INFORMATION FOR SEQ ID NO:1251:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 503 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

GAATTCGGCC TTCATGGCCT AAGCCCACTG GCATCAGACA TGCTTTGCTG TAGTGTACAC 60  
TTCNTTTTTC NTTTTNTTT TTTTNTTTN CACACAGAGC CNGGNTCCGT CCCCCAGGCC 120  
TGACTGCAGC GGNANAATCC CACCCACNG CCACNTCCGC CACCCAGGCC CAAGCGGTTT 180  
CCTAACGGCT AATGATGTTG AACATCTCTT CATGGGGTTA CATGCCATCT TTATATCCTC 240  
TTCAGTGAAA TGTTCCTTAA CATCTTTTGC TGTTTTCTAA TTGGATTACT TGGGGTTTTT 300

TAATACTGAG TTTGGAGTTA TTTATATATT CTAGACAGTA GTCTTTATTG GATATGTGGT	360
TCAAAAATAT TTTCTCCAG TCTGTAGTTT GCCTTTTCAG CCTTTTAACA TGGTCTTTAG	420
CAGACCAAAA TGTTTTAGTT CTTATGAAGT CCAACTTACC AATTTTCCT TTTCTAGATC	480
ATACTTTTGG TGTCAAGTCT CAG	503

## (2) INFORMATION FOR SEQ ID NO:1252:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 589 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252:

GAATTCGGGC TTCATGGCCT AATTGAATTC ATGATTGTGC TCTCTGCTTG CCTGTTGTTG	60
GTGTATAGGA ATGCTAGCAA TCTTTGCACA TTCATTTTAT ATCCTGGGTT TCAGTATTTT	120
AAAAACTTAC TTCAGGTGAT TCTATGTGTG CAACCATGAT TGAGATACAC TGTTATAGAA	180
TCTAGGATGT GATAAAGTAG AAGAACATAA CTAAAGTTTT GCATTTTTCG GGTGTCTCAG	240
TTTCCTCATT TATAGATGGA GTTGGTATGT GTACCAAGTT CATAGGCTTG TTCTGAGTAA	300
ATTAGTGCAT GTAAAGTGCT CCACAGAAATG TTAGCTGTTG TGATGCTTTA CTTTCCATTG	360
CACCTCCTGA CTCCTAGCCT TTCTTTTCCT TGGCTCTTTT TATGCTCATG TCAGATGCCT	420
CTATTGTTTC TTTCCCCCA GAATATCCTC CACTTTATCT TGCTCTGCTC AACATCTTTA	480
AAGTATAGAA TCAACAGACT GCCATGCCAC CCAGTCTGTC TGACAATTGA GGCAAATTC	540
CTAAGTCCTC TTGTTCTCCT TCTGAGATT CCACCTGCTC TAACTCGAG	589

## (2) INFORMATION FOR SEQ ID NO:1253:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 702 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253:

GAATTCGGCC TTCATGGCCT ACATTTATCG AGTCTTTAAT TAATGCCCTG GGTAAGTATA	60
AGGTTGGAAC TGTAATTGTC ACCATATTGA TGATGAGAAA CTTGAGAAAG GATAAGTGAC	120
TTGTCTAAAA TCACACAGTA AAACCTCAAA TCAAACCCAG GCCCTCTGGC TCCAGACTCT	180
AAATTATACT CTGAATGATA CTCACTGATT GTCCGAGGAC ACAAAGACTG TCGAGGCACT	240
ATCTGCTGGG TGTCTGCAGA ACCTTACTGT TCTAAAGCAA AACATTTTAC CCCTGGACAA	300
GAGCAGCAAA GGTGGCGTTC GGCCCTCCTT GGCTCTCATT TGACTGTTCA AAGCCAGGTG	360
CTTTTCTTTC TTGGGTCAGA ACGTATTTTC AGCAGCATTT TGAAGCACCC CTGGCGTGCA	420
CTGCACAGGG AAACCAGGAC CACATTGGTG TGCTGTGTCC TCCTTACCAA CTGGCTCTTG	480
GAGAAGGTGA GACAGAAGTA GCTGAGACTC CATTCCTGAG ATCTTCACTT AACAACTCCT	540
GCAGCTTGTG CAGAGCCTTA CTAGAAATAC TGAAGGCAGA AGTCCCTGGA AAATAGGGCC	600
CATAACTAAT TAGTAATTG TTTTGTAGTA ATTTCTTACC GTTATTGAG CACATTCTGC	660
AGTCCAGGCA TTTTGCTAAA CTCTTACATG GCAGGACTCG AG	702

## (2) INFORMATION FOR SEQ ID NO:1254:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 554 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1254:

```

GAATTCGGCC TTCATGGCCT AAGCAAGTAA ACACTGTATA TCTGTAATTG GAAAGTTGGT      60
GGGAAGATTA CTTTCCATT CTGTATGTGG CAGCCTTAAG TGCCATCACA GCTTGTCTG      120
TGGTTTGCCCT TTTTTTTGC AGTGACCTCA GCTCACTGCA ACCTCCACCT CCCTGGTTCA      180
AGCAATTCCTT CTTCTTCAGC CTCCCAAGTA GCTGGGATTT CTGGTGCATG CTACCAGGCC      240
TGGCTAATTT TTTTGTAT TTTTAGTATA GACAGGGTTT CATCATGTTG GCCAGACTGG      300
CCTCAAATCT CTGACCTCAG GCAATCTGCC CACCTCAGCC TCCCAAAGTG CTGGGATTAT      360
AGGTGTGAGC CACTGCGCCC AGCCGACTTT CAAATTTTAA AACCACAGCC CAGTGTAAAC      420
CTGTGTGTAT GTGTGTGAGT GTGCTGTAT GTGTGTTGA AATAAAATTT TTCATGTGCT      480
TAAACATTCT GATTTTCTT TTATCAGAAC CACTAATGAG ATGAGACCAT AGTTTGTAAA      540
ACCTCATGCT CGAG

```

(2) INFORMATION FOR SEQ ID NO:1255:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

```

GAATTCGGCC TTCATGGCCT AGCTCCGGCA CATGGCAGGC ACTCAGGGAA AGTATGTAGC      60
CTTATGAAGT GACTGATCTG AGGGAGGCAC TTTCTGTAAGC CATAGTATTG GTCAGTGGCA      120
TGAGGCCACC TACTGGATCC CTGCCATCCA GCCTGGGAG TAGCATGAAG CAGCATGGCA      180
CTGGCCTTCT GGAAGCTTGG AGAGGAGTCT TACCAAGCT TTGCTCCTAG ACATTAAACT      240
TCCCAGCTGG GCACTAACAT GTGGCTGCAG AACCTGCCCT TGCTCAGTCT GTCCCTGGTG      300
CAGCTGCTGG GAGAGCCTGC CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1256:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

```

GAATTCGGCC TTCATGGCCT ACATTAAGGC AGCTTTGTAA GTAAGTACAA AATATATTT      60
AACCTACACA ATTTTATTA GTTCCCTCT CTTTGAAG TACACCGACT CTAAAATGAA      120
TGAAAGTCTG ATTACTTGCC TTAGGTTGGG GGCTTATCC AAGCTCTACT AAGTGAAGCT      180
AAAATAAAGG ACATTGTTGT ATATTGTATT TTAATGTATA CATTATTACC TCCTCAGCAA      240
AGTGAAACAT AGCTAAACT TGAGTATATA TTTCTTCAT TTCTCTCTT AGTTCCTTTT      300
TGGCATCTCA TGCTGAACAA ATCCAAATA GATTATTAA TGCCTTCCCC CAACACAAAC      360
AAAACCAGAA GAGTCTTTCG CTTCTAGACC TGCCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1257:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

GAATTCGGCC TTCATGGCCT ACTGAGTACA GGTTTGGGAT CTACATACCC AGATCAACAG	60
CATGTGGCAT CACCTGGCCC AGGTGAGCAT GACCAGGTAT ACCCAGATGC AGCTCAGCAT	120
GGCCATGCTT TCTCTCTCTT TGACAGTCAT GATTCAATGT ATCCTGGTTA TCGTGGCCCA	180
GGGTATCTAA GTGCTGATCA GCATGGCCAG GAAGGTTTGG ATCCAAATAG AACACGAGCC	240
TCGGACCGAC GTGGAATTCC TGCCGAGAAG GCCCCAGGCC AAGATGTAC TCTTTTCAGG	300
AGTCCAGACT CCGTCGACCG AGTCTTATCA GAAGGGAGCG AAGTCTCGAG	350

(2) INFORMATION FOR SEQ ID NO:1258:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 335 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258:

GAATTCGGCC TTCATGGCCT AATTGAATCG AGCTGGTTAA GTTTCAGTAG GAGGCGCNAA	60
AAAGGAGCCG TTTTGGACTT AACATTTTAA TTCTAGTAGA GATAAGAAGA GCTTGTGTGG	120
GGTACAGTC CTTCACCTGA CTGTCCCTCA CCAGTGAGTA GCATACCAGT TCTTCAAATG	180
TCCTATACTT TGGAAAGCAG ACCCGACTCT GGAGCACTCG CCTTAATTAG ATTCTGAATT	240
TCCTTGAATT TTGGATGGTC CTTATCAGCT ACCAGCTGAA GCAGAACAGC CTCACTCGTG	300
GTCACTATGA TCCCGGTTTC AGCGAGACGC TCGAG	335

(2) INFORMATION FOR SEQ ID NO:1259:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 621 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259:

TCCAGTTGAA TTTAATAGAA TTCGGCCTTC ATGGCCTAGC CGACCGTTGA CTATTCTCTA	60
CRAACCACAA AGACATTGGA ACACTATACC TATTATTCGG CGCATGAGCT GGAGTCCTAG	120
GCACAGCTCT AAGCCTCCTT ATTCGAGCCG AGCTGGGCCA GCCAGGCAAC CTTCTAGGTA	180
ACGACCACAT CTACAACGTT ATCGTCACAG CCCATGCATT TGTAATAATC TTCTTCATAG	240
TAATACCCAT CATAATCGGA GGCTTTGGCA ACTGACTAGT TCCCCTAATA ATCGGTGCCC	300
CCGATATGGC GTTTCCTCCG TGCACTGCTAG TTATATTCT CCAACATAGA TTAAATACAT	360
ACATGACTAT TAAAATCTCA GGGTCTCTCT ATGTGTCCCC TAAAAGCATG ATGTATGCCA	420
GTGTCATCT GTCCACCACC ATTTGGGGAC CACGGCATTT AGGTAAAGTG GGTCTCGGAT	480
GACCTCCTTC AGCTTAACAG CAGGAGTTGA GATGGAGCCC TTGCAATTC CCCACTGAAT	540
TCCAGAAGCA AGGAGAAAGA CTGAAGTGAC AAGTACCGCA AGACAGACTT CAGGAACAAT	600
TCGTTTAAGC TGCAGCTCGA G	621

(2) INFORMATION FOR SEQ ID NO:1260:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 322 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260:

```
GTTTTGTGAT TCTCCAGGAC AGATGATGAA AAACAGTGTA GATAGTGTC AAAATTCCAC      60
TGTAGCCATA AAATCTCGAC CTGTTTCAAG AGTTACCAAT GGAAGTTCCA ATAAAAAAG      120
TATTCATGAA CAAGACACTA ATGTAAATAA CAGTGTTACTA AAGAAAGTCA GTGGCAAAGG      180
ATGTAGTGAG CCAGTACCAC AGGCAATTTT GAAGAAAAGA GGAAGTAGCA ATGGATGTAC      240
TGCAGCTCAG CAGAGGACAA AGAGTACCCC ATCTAATCTT ACTAAACTC AAGGATCCCA      300
AGGAGAGTCA CCAATACTCG AG                                     322
```

(2) INFORMATION FOR SEQ ID NO:1261:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

```
GCCCTCATGA CTCGATCCA ACCTGCCTCG CAGGGAGTCG AGCTCTCCGG CCTCTCAGCC      60
GCCATCAGCC ACTTCCTGAA CTGCTTCCTG AGCTCCTACC CAAACCCCGT GGCCCACTG      120
CCCCCGACG AGCTGGTCTC CAAGAAGCGG AATAAGAGGA GGAAAAACCG GCCCCCGGG      180
GCTGCAGATA ACACAGCCTG GGCTGTCATG ACCCCCAGG AGCTCTGGAA GAACATCTGC      240
CAGGAGGCCA AGAACTACTT TGAATTGCAC CTCGAG                                     276
```

(2) INFORMATION FOR SEQ ID NO:1262:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 292 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

```
GAATTCGGCC TTCATGGCCT ACAAAGAAAG CAAGCCACAA ACAATAATGA AGCAAAAAAT      60
GGAATCTAAG AATCTTTTGG TATGGAATAT TACTTCTATC AGAAGATGAT CAAGATGTT      120
CAGTCCAGTG CACATCAGCA TTGCTGACAT TTTATGGATT CTAAACTTGT GTTGTCTCTT      180
TTTAAATCA ACTTTTAA AAAATAAAGT GTAAATTAAC CGACTAGAGT ACTTGAAAAA      240
TGTGATCAGT ACAAGTGAAC TTAGTTGTT GCCAACAGGG TCCGTACTCG AG                                     292
```

(2) INFORMATION FOR SEQ ID NO:1263:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 439 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

GCGATTGAAT TCTAGACCTG CCTTGATGCC AACTAAGGAA ATTTGTTTAG CATTGAATCT	60
CTGAAGGCTC TATGAAAGGA ATAGCATGAT GTGCTGTTAG AATCAGATGT TACTGCTAAA	120
ATTTACATGT TGTGATGTAA ATTGTGTAGA AAACCATTAA ATCATTCAAA ATAATAAACT	180
ATTTTATTGA GAGAAATGAT ACTTTTAGAA AGCTGTCTCC TTATTAAAT AAAATAGTGT	240
TTGTCTGTAG TTCAGTGTG GGGCAATCTT GGGGGGATT CTTCTCTAAT CTTTCAGAAA	300
CTTTGTCTGC GAACACTCTT TAATGGACCA GATCAGGATT TGAGCGGAAG AACGAATGTA	360
ACTTTAAGGC AGGAAAGACA AATTTTATTC TTCATAAAGT GATGAGCATA TAATAATTCC	420
AGGCAAATGG CAACTCGAG	439

(2) INFORMATION FOR SEQ ID NO:1264:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 486 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1264:

GAATTCGGCC TTCATGGCCT AGGGGAGGCC GCGNGGGGA AAATGGCGGA CGGAAGGCG	60
GGAGACGAGA AGCCTGAAAA GTCGCAGCGA GCTGGAGCCG CCGGAGGTGA ACACAACCCC	120
AGCGTCGTGG GCAGCGTGGG ATGCTCCGGG CTTTCTTTG AGCTCCCAAG GTGGGGGAG	180
TGGGGTGGGG CGAAAAATGGG CGGATCTGGA CCTCACCCGG ACAGGTGTTG GGCCAGACC	240
TGCCCTCCGGG CNGCCCCGA TCGGGCCCTC CTGGGCTCCG GGCCTACATC GCCTCCTTGC	300
CTGGGGAGAG CCGGCCACTG TTCGTCACCT CCTGGCCCCA GCGGAGGCC TGATTCCGAG	360
GAGAAGGGAG ATGGGCGCCA GAAAGGGAGA CCGAACTCGG GGTGGGACCA GGAGCGGCGG	420
TGCAGGAGCC GCTACCGCCA CACCGGAGAC GCACATCACA CAAAACACAC ACACCGGATT	480
CTCGAG	486

(2) INFORMATION FOR SEQ ID NO:1265:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1265:

GAATTCGGCC AAAGAGGCCT AATTTATTGT TGGATCAATC AAAATTTTCA TCACTTAAAA	60
GAACCATGTC TATTAAAGAA TCTAGCTCAC TGGAGTGCAT TGCCATTCCA AAAAAAGAAGA	120
TGAATTTAAA AGATAAAGC CATGAAGGTG TTGCTTGTGT CCAGAAAGAA AAATCAGTAG	180
TTAAACCTG GTTCTGTGAA TGCAATCAGC GATTCCCAAG TGAAGATGCA GTAGAAAAGC	240
ATGTTTCTC AGCAACACA ATGGGTTATA AATGTGTGGT CTGTGGAAAG GTATGTGATG	300
ATTCAAGGGT TCTCGAG	317

(2) INFORMATION FOR SEQ ID NO:1266:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 479 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

```
GAATTCGGCC AAAGAGGCCT AATCTTTTCC TTTCTTGTA GTTAGAAGAA ATAACCTCTT      60
CAGTTAAACC TTCAGTGAAG GTTCTTTTTC TTTCTGTTC TGCTTTCTAA AACATAGAC      120
TCTGTTCTTT AGAGCAACTT ATGACTCTCA TCTCTGCTGC ACGAGAATAT GAGATAGAGT      180
TCATCTATGC GATCTCACCT GGATTGGATA TCACTTTTTC TAACCCCAAG GAAGTATCCA      240
CATTGAAACG TAAATTGGAC CAGGTAACCT CTTACTTTTT ATTCAATTTT CCTGACTATG      300
TACTTGAAC TAGAAGTTTA CTCAGTTGCT TTTACGATGT TAAAAGGAAA TCAAATTCCT      360
ATTTCTTTGT TTTCTTTTTT TGTTGTTTG TTTTGTTTT TGAGACAGAG TCTTGCTCTG      420
CACTCCAGCC TTGGGCAACA GAGCAAGGCT CTCAAATAA AAAAGCAGCG ACACTCGAG      479
```

(2) INFORMATION FOR SEQ ID NO:1267:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 615 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

```
GAATTCGGCC AAAGAGGCCT AGGGTTTATG CCAACAAAAG GAGAGGGAGC CATAGGTTCT      60
CTAGATAACA CTCCTGAGGA AAGAAGAGCA CTGCCCCAAA AATCACAAGA TTTCTGTTGT      120
GAAGGATGTG GCTCTGCCAT GAAGGATGTC CTGTTGCCTT TAAATCTGG AAGCGATTCA      180
AGCCAAGCTG ACCAAGAAGC CANAGAACTG GCTAGGCAAA TAAGCTTTAA GGCAGAAGTC      240
AATTCATCTG GAAACACTAT CTCTGAGTCA GACTTAAACC ACTCTTTTTC ACTAACTGAT      300
TTACAAGATG ATATACCTAC AACATTCCAG GGTGCTACGG CCAGTACATC GTACGGACTC      360
CAGAATTCCT CAGCAGCATC CTTTCATCAA CCTACCCAAC CTGTAGCTAA GAATACCTCC      420
ATGAGCCCTC GACAGCGCCG GGCCAGCAG CAGAGTCAGA GAAGGTTGTC TACTTCACCA      480
GATGTAATCC AGGGCCACCA GCCAAGAGAC AACCACACTG ATCATGGTGG GTCAGCTGTA      540
CTGATTGTCA TCCTGACTTT GGCATTGGCA GCTCTTATAT TCCGACGAAT ATATCTGGCA      600
AACGAATACC TCGAG                                     615
```

(2) INFORMATION FOR SEQ ID NO:1268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

```
GAATTCGGCC AAAGAGGCCT ACAGAACTTT TGTCAAATGG AGTGTTACCC ACAGTCAGAA      60
TCTAGCCACC AAAATGGGAA GGGAGTGNAG CTGCCCTGTC CACAGGCTTC TCTATGGGAA      120
ANGCTGCTGT TCTGTAAAC ATGNTGGGGC NGGCTGTGGG GANGAAGGCA TTTTCTGGAC      180
CACATGNACG AATTCGAATT GGGGGACGGT CCTACCCAG TGAGGAAGCT GAAAGAAATG      240
GGCCTGATT TGTGCAGGAC ANCCCTGAA GACCGTGAGG CCCCTGGCCT CTGCCGCAGA      300
```

TGGGAGCCTC AGCAGCANGG TTTAGGGCAG CACCCAGGGC ATCCTTGCCA CGTGAGGCTG	360
CCGTTGGTGC CTGGGCATCA GTAGCTCAGG CTGGAATAAT TGGAAAGGAA AAGGCAGGAG	420
GANCCCCCTGA GGCCAGGCCA TTGGGCTGGG GAGCTGTTAA GCTGAGGTGG CCCTAGGGCC	480
TGCCGGGGCT GGGGGTGGCA AGCCAAACTC TCGAG	515

## (2) INFORMATION FOR SEQ ID NO:1269:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

GAATTCGGCC AAAGAGGCCT AGTGCAACTG ATCTGTCCAG TTTGTGTATG AAATGGATTT	60
GATAAAGTTT TTGCTAGTTA TTTACTACAT TTTGGGATTA ATAAGTGATT TATATGCATA	120
TTTTTCTGTA AATCTACAGT TTTTGTACA AGATATTCTA CAAGTTATGA AGCTAAGGGA	180
AGAAAATGCC AAAGATACCT CTAGTTATGT TGAACACAGC CAGCTCGAG	229

## (2) INFORMATION FOR SEQ ID NO:1270:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

GAATTCGGCC AAAGAGGCCT AGTATGCCCT TAAATCTGGT TATTAGGTAA TTCTTTTCCG	60
AGTAGGAGCC CAGATCAACT CACAGTGTTT CTGAGTCTTG GGAGATTGAA TTCTAGACCC	120
GCCTCGAG	128

## (2) INFORMATION FOR SEQ ID NO:1271:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

GAATTCGGCC AAAGAGGCCT ATTTAGCACA AATTTCTTTT TGCTTGCCTT TTCAGATTTT	60
AAAACATATTA GAGAAAAACA TACTTGATTG CTAAAATTG TCAAACATAA ATAGTAGACA	120
CAATTTAGTA ATAATCATAT TAATAATCAT AATCATTAAT ACTCATAATA ATCANACAGA	180
GGACGCCCTA AAATGTACAC TGATTAAATT TTATTTTTTT CCCATGCATA GCTAGCCTGT	240
TTGTACAACCT TTACTTTTGC TGCTGCATGT AACCAGATGA TTTTTTAATC AGATTACTGC	300
CTTTCTGATT TATTTAGAAT TTTTCTTCTT TTTTCTTTT AAGAGACGGG ATCTTATTCT	360
GTGCTCAGG CTGGGGTGCA GTGATGTGAT CCTAGCTTAC TGTATTCTCG AG	412

## (2) INFORMATION FOR SEQ ID NO:1272:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 480 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

```
GAATTCGGCC AAAGAGGCCT AGTTTTAAAG GACAGGTTTA AATAGGCTTA CTTTTTCTT      60
TTAAGTTCAG ATACCTAAGC CTTATGTCCC TAGCCGCAGT TTTCAGATAT TGCAGCTAA      120
TTAATTCTTA GGAAATCTAA TCTGAATTGA ATTAATTTTC CCTTTTAGGG CACACGAAGC      180
AACTTTTAGG TAAGAAAAAA AATGAAAACA GCTTTTGTG CACATAATTC TTGCAACTAA      240
TGAAAAGTAA TATTGCTGTT CCCTTCAAAT AATGCAATAA CAAAACACCA AATGAGAGCA      300
TTGCATTGTA TTGTTATATT TGCTGTTTAA ATAATTTAGC TGCAAAAATC TGAGGGCTGC      360
TTTAGCTGTA ATTAATATT CATTAAATGAC ATGCTAATTG CACAATACCT TTGAATATTT      420
AACAAAATGC AAAAACCAGG CTCTGAAGTT ATGTTTTTAG TGCAAGGGGG ACACCTCGAG      480
```

(2) INFORMATION FOR SEQ ID NO:1273:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 293 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

```
GAATTCGGCC AAAGAGGCCT AAGACCAGCC TGGGTGACAG AGCGAGACTC CGTCTCAAAA      60
AAAAAATTGA ATGAAGCAGA AATTATTCTT TTAAAGCCCA TTTAGCTGTT ACACACATAG      120
TTATAGCATA TTCTCTCTTG AGATAACTTG CTTTTAATTG GAAAATAAT TCATTAAATA      180
TCCAACTCT ATATCATTTT TGGATAAGT GATTTTAGCA ATTTTGATA CTTATTCTAA      240
CATGATGCAT ATATTGAGTA TGTACTTTTC TTAAATGCA GGCAATACTC GAG          293
```

(2) INFORMATION FOR SEQ ID NO:1274:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 194 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

```
GAATTCGGCC AAAGAGGCCT ACCGCTTTTT TTTTTTTTTT TGATAAAGAG AAGCCACCAC      60
CAGGAGGAGG CTGAAAGCT TGAATTTAAT TACTCCTCCA TCTCCTCATT ATTCCACCCA      120
ACTCCCTACT TCCCATCTC ATTTACAGAG CTCCACCAGC TCTCCCTCA GGCCTCCTAG      180
ACATCGCGCT CGAG          194
```

(2) INFORMATION FOR SEQ ID NO:1275:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 164 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

```
GAATTCGGCC AAAGAGGCCT AAGAAGAAGA AAGAAAAATT GGAGAGAAAA AAGGAGTCTT    60
TAAAAGTTAA AAAGGGTAAA AATTC AATTG ATGCAAGTGA AGAGAAGCCA GTTATGAGGA    120
AAAAAAGAGG AAGAGAAGAT GAATCATACA ATATTCAGG GGTC                        164
```

(2) INFORMATION FOR SEQ ID NO:1276:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 465 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

```
GAATTCGGCC AAAGAGGCCT ATTTGGATGG CAACGAGCTC ACCCTGGCTG ACTGCAACCT    60
GTTGCCAAAG TTACACATAG TACAGGTGGT GTGTAAGAAG TACCGGGGAT TCACCATCCC    120
CGAGGCCTTC CGGGGAGTGC ATCGGTACTT GAGCAATGCC TACGCCCGGG AAGAATTCGC    180
TTCCACCTGT CCAGATGATG AGGAGATCGA GCTCGCCTAT GAGCAAGTGG CAAAGGCCCT    240
CAAATAAGCC CCTCCTGGGA CTCCTCAAC CCCCTCCATT TTCTCCACAA AGGCCCTGGT    300
GGTTTCCACA TTGCTACCCA ATGGACACAC TCCAAAATGG CCAGTGGGCA GGGGAATCCTG    360
GAGCACTTGT TCCGGGATGG TGTGGTGGAA GAGGGGATGA GGGAAAGAAA TGGGGGGCCT    420
GGGTCAGATT TTTATTGTGG GGTGGGATGA GTAGGACAAC TCGAG                        465
```

(2) INFORMATION FOR SEQ ID NO:1277:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 302 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

```
GAATTCGGCC AAAGAGGCCT AACTGTGGTT CTTACATCCT AACAAAAGCT GCCCTCCCCG    60
CACATTCTTT TGTATGTTCC TTAAGCTTAA AGATGAATAG ATGCTTAAAG TATGCAACTA    120
TGGCATTGAG AGTGCAAGAC AACTTGAAAA AGAGTGTGAA AACATTGTCA GATATAAAGT    180
TACTTCAATT CTTTGGAGTC TGTTTCTGT CATGCTTAGA TGTTTGGAAT CTTAAAGTTA    240
CAGAGGAAC TTTCTCTGGT AACAAAGACAT GTCTGAGTTT GTGGACTGCA CGCGATCTCG    300
AG                                     302
```

(2) INFORMATION FOR SEQ ID NO:1278:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 401 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

```
GAATTCGGCC AAAGAGGCCT ATAGGCCTCT TTGGCCGGGT TAGCCTAAAG GAGAAAAAAG      60
CAAGGCTCAA GAGAAATTAG ACAGCAGCTT TCAAATATTT TTAGAGAAGT AGGTTAATTA      120
TGGTACTCAT TCAACAAGGT AGAAATCATA CCAAGCATGA AGTCACAGGA ATGTCCCAGG      180
AGTGTGCAAC CATTGGAAct GTCCATAGTA AAATGGGCCA GCTTGAGCAA TAAAAGTCTC      240
CTAGTACCAG GAAATGCTTA GAGGTTGGGG AAAGTGAAAA AAAGGGGGAA AGTTTGGTCA      300
GGTTGGGGAG CAGTCACACT TCTTCCTGAG AGGTAGTAAA TACCAGGCTC TCCATCTGGA      360
GGAGGGGTCA GTAAATCAGG TTTGCAAAGG AATATCTCGA G                          401
```

(2) INFORMATION FOR SEQ ID NO:1279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

```
GAATTCGGCC AAAGAGGCCT ACCCACCCCT ACTCCTCAAC ACTTCTGGTT TGCCCTGACT      60
TCTCTACGGC TCTGGCTTCT TCCCGAAGAG ATATAGGAGC CATGTAAGCA CGCAGTGGGT      120
GAACTGCTTA ATTTCACTAC ATGTTGATGT ACTTGCTTTC CGTCCTGTAG GTCTTTTCTA      180
TATAACTTTA TGCCACCCCT AAATGAATCA TTGGGTATAC CTGTCATGTT GGATCCTGTA      240
ATCACAGTTT TCCCTGCTCA CCTTTTGTG TAAGATCTAT TGAGAAAGGG AAATATGGGA      300
AGGAGAACCA TTTGATCAGA ATACAACCA TAGTCTTTAA GCATTGTTAA AGTATGAAAC      360
TGAAATACAT TCAAAACACT TTACACTCGA G                          391
```

(2) INFORMATION FOR SEQ ID NO:1280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

```
GAATTCGGCC AAAGAGGCCT AGGACTCCAC ACTCCCCAGA TCCCAGTATG ACTACATCTT      60
GCCTCAAGTT TCTTTCACCG CAGTGGGCTA CCATAAACAC ATCACCTTGA TTTTAAATCC      120
CAGCAGGAAG CTGCTGAAC AGGACATCGC ACAAGGATCC TACATTGCCC TGCCATTGAC      180
GCTGCTGGTT CTGCTGGCCG GTTACAACCA TGACAAGCTC ATTCCTTTGC TGCTGCAGTT      240
GACAAGCCGG CTACAGGGAG TCCGCGCGCT CGGCCAGGCA GCCTCTGACA ATAGCGGCCC      300
AGAAGATGCA AAGAGACAAC CTCGAG                          326
```

(2) INFORMATION FOR SEQ ID NO:1281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

GAATTCGGCC AAAGAGGCCT ACAGATGCAG ACACGGTGTC CGACGAGTAT TCTGACGAGG	60
AGGTGGTGGA GGACGTGGAT GATGCCGCCT ACTCCATGGT CAGTGCCTCC CATGTGACCG	120
CCCGCACCTG GGCCGCTGTC CGTCTAGCGC TCTAACAGTC TTACACCTTG GCTTTCTCTG	180
TCCCTTGAAA GAATTAACCTA TATCTACTGT GGACTGTTTC ATAAAACCAA CCTATGGTGT	240
TGCCGGGCAC AGAACAAAGC TGTCTTTCAC TACTGAAGGG ATGATTGGGT TTCTATATCA	300
TAATTACTTT TAGCTTCAGA ACAGACCCTT GTTCAAACAT CTCATGATCT TCGCTAACCA	360
TCTCGAG	367

(2) INFORMATION FOR SEQ ID NO:1282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 560 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

GAATTCGGCC AAAGAGGCCT AAGAGAAGTG TCAGCCTCAC CTGATTTTTA TTAGTAATGA	60
GGACTTGCCT CAACTCCCTC TTTCTGGAGT GAAGCATCCG AAGGAATGCT TGAAGTACCC	120
CTGGGCTTCT CTTAACATTT AAGCAAGCTG TTTTATAGC AGCTCTTAAT AATAAAGCCC	180
AAATCTCAAG CGGTGCTTGA AGGGGAGGGA AAGGGGGAAA GCGGGCAACC ACTTTTCCT	240
AGCTTTTCCA GAAGCCTGTT AAAAGCAAGG TCTCCCCACA AGCAACTTCT CTGCCACATC	300
GCCACCCCGT GCCTTTTGAT CTAGCACAGA CCCTTCACCC CTCACCTCGA TGCAGCCAGT	360
AGCTTGATC CTTGTGGGCA TGATCCATAA TCGGTTTCAA GGTAACGATG GTGTCGAGGT	420
CTTTGGTGGG TTGAACATG TTAGAAAAGG CCATTAAATT GCCTGCAAAT TGTTAACAGA	480
AGGGTATTAA AACCACAGCT AAGTAGCTCT ATTATAATAC TTATCCAGTG ACTAAAACCA	540
ACTTAAACCA GTAACCTGAG	560

(2) INFORMATION FOR SEQ ID NO:1283:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:

GAATTCGGCC AAAGAGGCCT ATTTTCATCA ATAGTAAGTT TTTATTGTCT GCTAATTG	60
TAGATAAGTT GAGACATCTC ATTGTTACTT TAATTTGCAT TTTCTCCACA TTAGAAAATA	120
TTTTCATTGG TTTATTGACC ATTTGCATTT CTCTTCTATA AATTGACTTT TTATATTTAT	180
TTGTCTCTAT TTCTGTATTC TGTGATAGT CAATTTATAG GAACCTTCTG ACAGATATGC	240
ATATTCATTT TATGTGTGAG TTATTTTGT GGCACCTCACT CGAG	284

(2) INFORMATION FOR SEQ ID NO:1284:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double



(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:

GAATTCGGCC AAAGAGGCCT ACTTCGGTTG CGGGATTCCT CCTCTGCCTG GGTCATTCTT	60
TCTCGTGTC TCTGATACGA GTCGTTTGTG GCACACACTG TAATTTTATC TTGTATAAAT	120
CCCAGGCAAT TGAGCTGGGA GGCTCCAGAG CTGGAGAATG TTTGCTGGAT GCAGTCAAAG	180
CTGCCCTGAG GGTGTCTTT GCCCACATT GACAAATAAA AGTTAAAGTT ATGAACTTCA	240
TTGAGGGGAT CATTTTGGG AATTTTGACA AGCCCGTGA GTCCTTGGA CTGGATTGAA	300
GGTCGAAAAG GAATTAAATT CTTCTGGCTC TGTAAGTCT CGAG	344

(2) INFORMATION FOR SEQ ID NO:1285:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 586 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

GAATTCGGCC AAAGAGGCCT AGGGAATTTG TTTTGCATA GGGGAATAGG TAAACCAAAA	60
GTGGTATTAA AAGCAGTGCT ATAGTAAAG GAGATTTTT TTAACCCAC AATAAAAAGT	120
TTAGGCCCAA TTTCATAGTA AACTATTCT AATTAAGGAT TGAACATATT ATCACTTGCC	180
TTGATTTTGA CCACTGACAT TTTTGGCTT CTTCAATTCA CTGTGACCA TCTGAATGCT	240
TTCTATTGG CTCTTAATG CCCAGATTTT ATTGACATTG GTGGCGAATC CCTATTCTA	300
CACAGACAAA GCATCTGACT TTGTCCAAGA AGCAAGCATG CTGCAGGCCA CTATGACGAA	360
GCAAGAAGCC GATGACATGA GCATCCCAT CTCCACATT GACGATGTT TCGACATGGT	420
GGATGTCCTG GTGGAGGGCA GTGAAGGCTT GGATGAGGAA ATAGGGTTCA CGTTGAGTGA	480
AGACATGATC CTGCTCACGT TCCCATTGAG TCGGGTAGTC CCTGCGGCC TGGAGCCAG	540
GAATAAGTTG CTCCTTGGGA CAGGCAATGA AGCAGATACC CTCGAG	586

(2) INFORMATION FOR SEQ ID NO:1286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:

GAATTCGGCC AAAGAGGCCT AGTTGAACAT AACTTGTAGT GTGAATATGG TTAACAACAA	60
GGACACCTGA TGTCTGTGAA GTCTGCTAAG GACAGGTACA AAATTTATGC ATTGCTTTT	120
AAAAAGTTTA AAATGAGGAA TGCTTTTGAT AATCAGAAAG ACTAATGTAA AGTGCTGACT	180
GATGTCCTGT CTGCAGTTAA GGAAGACACC CAACTCTCTT CTTCTCATC ATGGTATTCT	240
CTATGTATAG ATCTCTAAAA ATGCAAACTT CCTATGGACA AGACAATATG ATTTGCTATA	300
ATATGAATTA AGATATGGTA ATATCTAATA GTCTCCACTG CTAGGATTCT GAGTAACACA	360
AAAAATAGGT TTTATAAAAA GCCCATGCAC TTCAATTGGT GGGGAAAAG AATAAAGTCA	420
TTTTCAGTCG ACTGACTCTG TAAAACAGAT TACCAATATA ACAAGCTATG TTATCTAAAT	480
TGCCCTGGCT ACTCGAG	497

(2) INFORMATION FOR SEQ ID NO:1287:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 329 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:

```
GAATTCGGCC AAAGAGGCCT ACAGGAGTTC ATTTTCATCC AAAACAAACA CTGGACTTCC      60
TGCGGAGTGA CATGGCTAAT TCCAAAATCA CAGAAGAGGT GAAAAGGAGT ATAGTAAAAC      120
AGTATCTAGA TTCAAACCT CTCATGGAAC ATCTGGACCC TGATGAAGAA GAAGAAGAAG      180
GGGAGGTTTC AGCTAGCACA AATGCTCGGA ACAAAGCAAT TACCTCACTG CTTGGAGGAG      240
GCAGCCCTAA AAATAATACA GCAGCAGAGA CAGAAGATGA TGAAAGTGAT GGGGAGGATA      300
GAGGAGGAGG CACTCCCGGG GAACTCGAG      329
```

(2) INFORMATION FOR SEQ ID NO:1288:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 459 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:

```
GAATTCGGCC AAAGAGGCCT ATGCATCGCG GGAGGCGCAT GGCGGGGATG GCGCTGGCGC      60
GGGCCTGGAA GCAGATGTCC TGGTTCTACT ACCAGTACCT GCTGGTCACG GCGCTCTACA      120
TGCTGGAGCC CTGGGAGCGG ACGGTGTTCA ATTCCATCCT GGTTCCTATT GTGGGGATGG      180
CACTATACAC AGGATACGTC TTCATGCCCC AGCACATCAT GGCGATATTG CACTACTTTG      240
AAATCGTACA ATGACCAAGA TGCGACCAGG ATCAGAGGTT CCTTGGGGAA GACCCACCCCT      300
ACGAAGTTGG AATGAGACCA TCAGATGTGA TAAGAAATC TTCTAGATGT CAACATAACC      360
AACCTTATAA AGACTAAAAT TCATGAGTAG AACAGGAAAA TCATCCTGAC TCATGTGTGTG      420
TGTCTTTTAT TTTTAATTTT CAAAGAGGCT CAGCTCGAG      459
```

(2) INFORMATION FOR SEQ ID NO:1289:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 333 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:

```
GAATTCGGCC AAAGAGGCCT ACTACCTGCC TGAAATTCAT TGCCGTGTTC CTTCTGGACC      60
AGTTTAAAGC CATCTCTTCT GTTGTTCCTT TCCTCCCAA GATGTAGACT TTCCACTTA      120
AAAGCATTTT CAAGATTCTA TTTTTCATC CTTTTTCTG TCCTATTCT CTTCACTCC      180
CCACACTTGT TCCTAGCCTG TCTCTGTTGC TCTGATGTCC ATGTTGATGG TGCGGTCTT      240
CAACCATGCC ATCCGTGTGC CAACCCAGCA CTTTCCTGCC ATCCCTGTAG CCCTTGCCCC      300
AACATCTGTG CATTTGACTC CCCACCACTC GAG      333
```

(2) INFORMATION FOR SEQ ID NO:1290:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 326 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:

```
GAATTCGGCC AAAGAGGCCT ATCCACCCGC CTCAGCCTCC CAAAGTGTTG GGATTGCAGG      60
TGTGAGCCAC TGC GCCTGGC CTAAACAAAC TTTTGAAAA GCTGTTTCTA AAAGATTCCT      120
TAAATTCAGA TATGACAGCT AATTACCTCA TCATAAATTA CTTTATACT AATTGTTTCC      180
AGGGTTTTAG AGTAGTTGAA TGTATTATTC ACAAGGCACC CTAAATTCTA TAGAAATAAA      240
ACCTCAGATG AGTCTCCTTC TTAGAGTGTT ACAATGAATG GGAGTTTACA ACTTTTATGT      300
GTCATGTTTC CAACAGCTAT CTCGAG      326
```

(2) INFORMATION FOR SEQ ID NO:1291:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 281 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:

```
GAATTCGGCC AAAGAGGCCT ATTGAATTCT AGACCTGCTG CTTCTGCTC GTCCAGTACA      60
TTGGCTTTGA AATATACTTG AATTGTGGA GGCAGGGTGT AGAATGACAA AAACAAACAA      120
AAACCCCAACA ATACAGACCA AATTGGGGTA CACACGGACA GATTGGTTTT AATTTTATTT      180
TAATTTTGA GTTTCTATGA GAAGAAGAAT GAGGAGAGAC AAAAAAGGGG AAGAGTGAGA      240
GATAGTATAT TTAGGGTATG ACAAATCAGG GATGGCTCGA G      281
```

(2) INFORMATION FOR SEQ ID NO:1292:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

```
GAATTCGGCC AAAGAGGCCT AATTAACTA AATCTTAGGG ACTTAGGGAT TTAACTAAA      60
TCCCCACCAC ATCTGATTTC CCCTTCCTCG AAATACCAAT AGTACGTGCA ACACAGACTT      120
GTAGCTCAGA GGTTCGATGC TGTTCAAAT TCTTGGGATA TGCATGTTAC TTTTITTTAA      180
AGAAGTGGTA TATCAGACAC CTGAAGGTCA AGTCTCTCTG TGCCACCAAC AAACCTCTCGT      240
GACCTTGAGC CCCTCCTCTC AATTCCTCTT CGGTAAGAAGA AATACCTCAC AGTGGCTGTG      300
CAATCACCAA ATAGGAACTA CAGGTGGCAT TATTTATCTT TTGCCCTTGT GTAAGAAAAG      360
ACTCGAG      367
```

(2) INFORMATION FOR SEQ ID NO:1293:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 234 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

```
GAATTCGGCC AAAGAGGCCT AGGATATTTT AAATTTTGTT AATTTTGTTT CGTGGTCTCT    60
GCCTGAATAG ACAGGCACTT GCCTGGAACG TAATACTGTT TCACTGCCTC GTTTTACCT    120
GTTTAATCTA GAACCAAATT GTGTCAATGT GTCAGCCCGT TTGTGCTTTT ATAACAAAT    180
ACTACAGACA GTAATTTATA AAGAATAGAT ATTTATTTCT TCACAGTTCT CGAG        234
```

(2) INFORMATION FOR SEQ ID NO:1294:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 562 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

```
GAATTCGGCC AAAGAGGCCT ATACTGATCC TCTCCCCTTG TGCATCACTT TTTCACTGCA    60
GATATCTTGT AGCTCCGTGT CTAGAGGTAG CCAAGGTATC CTCCTAGCTT GCCTTCTTGG    120
TTTTATACAT GCTTCAGTAT GTAAGACAGC TTGTAGTCCA AACTCATGAG ATGACTATTC    180
TGCCTGCCCC ATCTTACCTC AACAAGTGAG CCTGCATGCA TGTGCTCCTC AGTCTAGTCC    240
CAGGATAGGA GGTAGGGGTC TCACATCGAC CTCAAGTTCA TATGACTTTT TCTAACTCAC    300
CTTTACCACA CAGCCCCTAC TGTGGGGCTT ATAAAGTGTC ATGGAGATTT GTGAAGTCAA    360
TGTTTCCTTT CCTTGTTTAT GTGCTTTATA AATTAGGTCC CTCTCCAAAA CTTTTCATC    420
ATCCTAAACT GAAACACTAT GCCCATGAAG AAGTCATTAA ATAAAGACT GATAAATTTG    480
ACTCCATAAA AATTAAATTT TTCTATATAG GAAAAATGC CTCAAAGTCA AAAGTCAATC    540
ACCAAACCTGG GAGTTACTCG AG                                          562
```

(2) INFORMATION FOR SEQ ID NO:1295:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 322 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

```
GAATTCGGCC AAAGAGGCCT AGACACCCGT CATTGCAATT TATATTTTAA CAAAGGCTTC    60
TGATCCTAAT TTCAGGAAAT AGCCTCTAAA CTCATCTATT AGTCCCAAAT TCTTTACCCA    120
TTAAATCTGC TATTTTATGC CTCCTATATT CTTACCTTCA GATGTTGAGA GGTGGGGCA    180
TAAAACTTTG CAGCACGTCT GCAGTCTTCC CTCTAGAGTG AACTTGATCC TGCTGTTTGT    240
TCTTTTATT CTCTTCAAAG TTAAATCATA TTCCAGCATT CATGGTATTT CTCCAGCTTG    300
TCCTCCACAC TCACCCCTCG AG                                          322
```

(2) INFORMATION FOR SEQ ID NO:1296:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

GAATTCGGCC AAAGAGGCCT AAGCTGTTTCG GGTACTTGTC AAAAATGGCT TCCAAATATA	60
TTCCTTTTAA TACAGGATGT GAAACACTT CCTAATAAAT TCCTGCAAAA TTAGATGATA	120
CTGTATGTAC TTCTGAAGGA CAGACAAGAA AGTAACCTAA GACCAAAACA ATAGAGGTCT	180
CCTACTACTG GGGAGAAGGA GGATTATCAA GAATAGAGGA AAACAGAGCC TGCCTAAGAC	240
TAATACTGGT CTAGAACAAA AGAGAAAGCT CAATTCCTAC CACCACAAAG CTAACAGCA	300
TCCAAGGCCT CGG	313

(2) INFORMATION FOR SEQ ID NO:1297:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 340 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCGGCC AAAGAGGCCT AGATTTTGT CTTTAATTCT CTGTGTTTTC AGNACCTTGC	60
GATTTTAAAA GTATATTAA CTTTTCTCCT AGATGTTTAC CTTTGAAATA CCTCTCTCTC	120
CTAATGATT AGACCTATGT GTCCAACCTAC TTTTCGGACA TGTTTCCCTA GATGTCTCAT	180
GGTAACTCC AATTTAACAT TTCCAAAGTT AAATTTATTT TATTTTACCA GACTTGGGTT	240
TTTTGTTTTC TTTGTTTTTG CTTTTCCCT TTTTAAGATA TCCTGGAGTC ACCAGAATCC	300
TATCTAGATA CCCTTGGTTA GAGTTGCTCA TGATCTCGAG	340

(2) INFORMATION FOR SEQ ID NO:1298:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 370 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

GAATTCGGCC AAAGAGGCCT AGCTTCTTCT GAGAGAGTCT CTAGAAGACA TGATGCTACA	60
CTCAGCTTTG GGTCTCTGCC TCTTACTCGT CACAGTTTCT TCCAACCTTG CCATTGCAAT	120
AAAAAAGGAA AAGAGGCCTC CTCAGACACT CTCAAGAGGA TGGGGAGATG ACATCACTTG	180
GGTACAACT TATGAAGAAG GTCTCTTTA TGCTCAAAAA AGTAAGAAGC CATTAAATGGT	240
TATTCATCAC CTGGAGGATT GTCAATACTC TCAAGCACTA AAGAAAGTAT TTGCCCAAAA	300
TGAAGAAATA CAAGAAATGG CTCAGAATAA GTTCATCATG CTAAACCTTA TGCATGAAAC	360
CACGCTCGAG	370

(2) INFORMATION FOR SEQ ID NO:1299:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 342 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:

GAATTCGGCC AAAGAGGCCT AGTTGGAGTT TGCTGATAGA AGGACTAGCT AAAGGCGTCA	60
CTGCAGGAAT TACAACTGA AGAGGACTCT GTTGGACTGT TTTTNTTTT	120
TTTAAAGAAA AACCCATTTT TTTCCTTAAG GACTTACTAG CCAAAATTC TTAACCTCG	180
AGGACTCTAC TAGCCATGGC CGAGCCATTC TTGTCAGAAT ATCAACACCA GCCTCAAAC	240
AGCAACTGTA CAGGTGCTGC TGCTGTCCAG GAAGAGCTGA ACCCTGAGCG CCCCCAGGC	300
GCGGAGGAGC GGGTGCCCGA GGAGGACAGT AGGCATCTCG AG	342

(2) INFORMATION FOR SEQ ID NO:1300:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 217 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

GAATTCGGCC AAAGAGGCCT ATCTAGACCT GCCTCGAGTT GGTCTATCCT ATGCTTTATA	60
CGCTAAGAGA GACCACATTT TATTGCTGT GTCCAACACA GGAATTTAAT AAATGTTGAT	120
TTTAGGAATG CCTTCAAGTT CCTCTTATC TTTATATCTC TTTCTACTTT GGCTTCTCCT	180
CTCTAGAGAA GTTCTAGATC TTTCCCAAC TCTCGAG	217

(2) INFORMATION FOR SEQ ID NO:1301:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 237 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

CCTTCGGAGA GAGGCACGCC CGGCCCGGAC AGTTCAGGCT CTCTCGGCTC CGGGGAGTTT	60
ACTGGCGTGA AGGAGCTTGA TGACATCAGT CAAGAGATTG CCCAGTTACA AAGAGAGAAA	120
TATTCAGTGG AACAAGACAT TCGAGAAAAG GAAGAGGCAA TCAGACAGAA AACCANCAG	180
GTGCAGGAAT TACAAAATGA CCTAGACCGG GAAACAAGCA GTTTCAGGA GCTCGAG	237

(2) INFORMATION FOR SEQ ID NO:1302:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 379 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:

```

GAATTCGGCC AAAGAGGCCT ACAAAGGAGA CCCTTCATAT CAAAATACAG TTATCAAAAT      60
ATTTTAAAGT TATATATAAT TATGTGCTTC TNTACTAATG TCCTTAAATAA TGAGATCAAA      120
CAGCAGATCT TAAAAACTGT CATAATATTT GGAGTAGTGA TGGGCATAAA AGTTATTCTG      180
AGATCTCCGC AGGAACTGTA ATGTGATATG AAAAAGTCTG TGA CTCTGT TACCAACAAA      240
GTCTCAAGTC TCAAGTCTAC TACTAGGGTA TGTTACCTAC ATTCCCTAAG TGAGGGAAAT      300
GTTATGTTTC AGTTGAGGGC AAATGATGGC AATGATGTAA TTTTTTCTC TTTCAAGTTC      360
ACAGCCCCC CCGCTCGAG                                     379

```

## (2) INFORMATION FOR SEQ ID NO:1303:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:

```

GAATTCGGCC AAAGAGGCCT ATTTTGCTGA TTTCTCTTA CATATGAATT ATGTGGGTAT      60
GTTTAAATTT AAGTTAGGAT AAACAGGCGT TAAGTAAGGG TTAGTGTAGA ATTTAAGCAT      120
GTCATTTTGT TAATCTCATC GGGCCTTGAT TTCATTAGTT TAGGCCCTCC ATTTTATAGA      180
TAGTGTTTCC CAGACTTCCC GGCTGCCTCA ATCTCCTGGG TCTTTGTAA ATAACCTTAA      240
GCAAGCTCAT TTCCCCAGT GTGTCAGTT CACAGAAAGC TCGAG                                     285

```

## (2) INFORMATION FOR SEQ ID NO:1304:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:

```

GAATTCGGCC AAAGAGGCTT AGTTGGTATC TGCCAGGGA TAATTGCTCT TAGGGTAAGA      60
CTTTTAAACAT GTAAGCCAGC CTGTCAAAAG TGCACCTAAA AGTCTCTTT CAGTCATTTT      120
CTGAGTTACT GATAGGAACA TAGGTACTGT GTGAATCAGA TCTGAGAGGA TTATGAATGT      180
TATAGAATGC CTTTGTGTAG GGAATTTAAG CCCAGAAGAA GTTGGGAAAG TGACAGATTT      240
ATATAAATGC GAGTGACAAA ACCAGTTAAA ATGTTCTGAC TCAACCTGAA ATATGTTGGA      300
CTATATAATA AATATAATAT TGTGAGATAT TCTGAAC TAGTCAACTCG CTCGAG                                     356

```

## (2) INFORMATION FOR SEQ ID NO:1305:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 489 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

```

CTCGAGTACG TAGCGTAGAA ATAGAGAATA GGTCATCAGG TTGGAGGTGG AGTGTTTAAAG      60

```

```

GACAAAGTTA TAAAGAAGTT TTTTGGTTTG AAAAATTAGA GGATAGGTTT GTACCATAGA      120
CAAATGGATA AGTTCGGAAA AAATCTTTTT TTTTTTTTTT TTTTTTTTAA AAAAAAGCC      180
ACGGTCTCAC TATGTTGACC AGGCTACCAG GCTCGTCTCA AACTGCTGGC CTCAAGCAAT      240
CCTCCCACCT AGGTCTCCCA AACTGCTGGG ACTACAGGCA TGAGGCAGAA TCGCCCGAAC      300
CCAGGAGGCA GAGGCTGCAG CGAGCCAAGA TCACGCCACT GCACTCCAGC CTGGGTGACA      360
GAGCAAGAAT CCGTTCTCCA AAAAAAAGA AATAAATAAA ATAAAAAGG GTGTTCATA      420
GGGGTGATGG GGAGGATGAA ACGTCATCAA ACAAGTTTAA GAAACATCTA GGCCTCTTTG      480
GCCGAATTC

```

## (2) INFORMATION FOR SEQ ID NO:1306:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

```

GAATTCGGCC AAAGAGGCCT AAACCAAAT AAAGAAGAAA TACAGGAAAA GGAGACAATC      60
ATTGAAGAAT TAAACACAAA AATAATAGAA GAAGAAAAGA AAACCTTTGA GCTAAAGGAT      120
AAATTAACAA CTGCTGATAA ATTACTAGGA GAATTACAAG AACAGATTGT GCNAAAGAAC      180
CAAGAAATAA AAAACATGAA ATTAGAGCTG ACTAATTCTA AGCAAAAAGA AAGACAGTCT      240
TCTGAAGAAA TAAACAGTT AATGGGGACA GTCGAAGAAC TTCAGAAGAG AAATCATAAA      300
GACAGCCAAC TCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1307:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

```

GAATCTAGA CCTGCCTCGA GTAAAGCCTG TAGGTAAAT GGAGACAGAT TTGAAAGAAA      60
TTAGAGAAGA AATTTCCCAA AGGGAAAAGG TGCTAGCAGA GATCAGTGCT ATAAGGGAAA      120
AGGAGATTGA TTTGAAAGAA ACTGGAAAAA GAGACATTCC CATGATGGAG AAAGTATCAG      180
GAAAGATGGC TGTGTTGAA GGACATCTCG AG

```

## (2) INFORMATION FOR SEQ ID NO:1308:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

```

GAATTCGGCC AAAGAGGCCT AGAAATATTA ATGAAATCGC TGAAAAGCTT TGCCTTCGAG      60
AGGCCAGAAG CCTCGCGGAA TGTCTGCAAG TCCAAAGACG CGTGTGGGTT GTGCCCTGAA      120

```



GTGCCGTCCA GCAGGCGCGT GCGGCCGGGC CGGCCTGTGC GTGTGGCCTT TGCCTTCTTC	180
CCTTTCTTCC TGTCTTCTGT TTTTTTAATT TGGGACTGG TGAGGGCTCG TCCATGTCCT	240
TTGTCAGGTC TTCTTGCTCC TCCCTCGAG	270

## (2) INFORMATION FOR SEQ ID NO:1309:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 386 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

GAATTCGGCC AAAGAGGCCT AGTCTTATAC CTGGGATGTA GCTGACAAAT TATTGCATTG	60
TAAAATGAGT CACGTGAATC ACGGAAGCTT TAAACTTTTT CTTTTTATAG CCCTACCTGA	120
ACCCATCCTT CCATCCCTCC AAAAAATTIA CCCAGTAAGT GTTCTTATA AATTATTATA	180
ATACATTTTA TGTCAGTGT ATGTAGAACT ATTATAAGTA GTATTAATGT GATTATAAAA	240
GTAAGGTAAGGC TAAGTACATG ATAACATTTT CTATATATAC CAAGAGAACA TTAAAAATGT	300
TTCATATACT GTTTCAGAAA ACTCTCTTAC TTGTTATTTT GTTATTGGCA GACAGTCTGG	360
TCAGTTGTGT TAATGGTGGA CTCGAG	386

## (2) INFORMATION FOR SEQ ID NO:1310:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:

GAATTCGGCC AAAGAGGCCT ACCATTTTAG CCTGCAGGCT TCCTTGGGCT TTCTCTGTGT	60
GTGTAGTTTT GTAAACACTA TAGCATCTGT TAAGATCCAG TGTCATGGA AACATTCCCA	120
CATGCCGTGA CTCTGGACTA TATCAGTTTT TGGAAAGCAG GGTTCCTCTG CCTGCTAACA	180
AGCCACCGTG GACCACTCTG AATGTCTTTC CTTTACACCT ATGTTTTTAA GTAGTCAAAC	240
TTCAAGAAAC AATCTAAACA AGTTTCTGTT GCATATGTGT TTGTGAACCT GTATTGTAT	300
TTAGTAGGCT TCTATATTGC ATTTAACTTG TTTTGTAAAC TCCTGATTCT TCCTTTTCGG	360
ATACTATCTC GAG	373

## (2) INFORMATION FOR SEQ ID NO:1311:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 402 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:

GAATTCGGCC AAAGGAGGCC TAAACAGATA TTTACTGAGC ATTTACCATG TTCAGTAACC	60
AGGGCCCTGG GAATATAATA GGAGAAGGCA GATGAGATCC TTGCCTTCAC CAAGCTTATG	120
TTTTTCTATT TTAAGTAAAA TTTGCCATGA CAAATTTCT ATCAGCGGAA GAGCCAGTAA	180

CTCTTATTGT AATAGGTTTT ACCCAGTTTT AGAAAAGGAA AGTAGCTAAA CTCTTGGTTC	240
CTTGGTGTGT GTTTTGTTT GTTCATTCT AGTACTTGTC TATGTCTTTG GGGTAATTTT	300
TGATTTAGAA TTTTGTAGAA ATTACTCGGC ACAGTGTAGT TGAGGTGAAT ATAGGCAAGA	360
AGGCTTAGGA AGCCTACAAC AAAGGAATCT GACACACTCG AG	402

## (2) INFORMATION FOR SEQ ID NO:1312:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 519 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

GAATTCGGCC AAAGACGCCT AATTGAATTC TAGACCTGCC TCGAGTTGGA CCCTGAGTGT	60
ATCACTCCCA AGTGTGTACT ATTTATACAC AGCAGTTTCC AATGTACTCA AATCAACCTC	120
ATGTTCTTTG CTGTAGTAAG CTGAATGAAC ATGACTCTTG AATCACCTTA AATATGCTTG	180
ATAACATGTC AGGATTCAGA ACAGCAAAAA AGAAAGCTTT AAAGGGAGAT ATGCTGGGCT	240
CATTCACATC AAACGTCAGG GGAAACCTGG TTTATGTCCC ATAGCTACTA GAATTCCTAC	300
ACTTGGCCAG CTTATTTTAA TAGACCATTT CTCAACTACT CTAGCTGTTC TGTCTAGTTC	360
TAAATAAAAA GCTAGGTAGT TGGGTACTAA AAGGCAAATA TGAATATATC AGTGGCTCTG	420
TATCATCTGC AGCAGTGGTT CTCAGTGTGA TTCCTGGACA' GGCAGCACAA GCATCATCAG	480
GGAACCAATC GGTAATGCAA ACTCTGGGGC GCATCTCGAG	519

## (2) INFORMATION FOR SEQ ID NO:1313:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

GAATTCGGCC TTCATGGCCT ACGAGGACGT GAGCAGATAT ACCAGCCCAG TGAACCCAGC	60
TGCTTCCCC CATCTGACCG TGGTGCTTTT GGCCATTGGC ATGTTCTTCA CCGCCTGGTT	120
CTTCGTTTAC GAGGTCACCT CTACCAAGAC ACTCGAG	157

## (2) INFORMATION FOR SEQ ID NO:1314:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

CTCGAGTTCA CTACCATGAC AATCATTAAT TAATTTGGTT TCTCTAGTGA GGTTAGTTGC	60
TTTCTTCCCT TCCTCCAGCA TCTGACCAAG GTCTGATTCT ACAGCTATTT GGGAAACAGT	120
AGTTTCTGGT GACATAGCTG AAGACCCTGA TGCTGTCATA GTCTGAATTC CAGAATCTTT	180
AGAATCTTGA GTTTCAGTAT CAGTTTGCTT TTCAGTAACA GGTTTTCTCTT CTTGAAATAT	240

TAATTTGTCA TCATTACCAA ACATGTCCAG TTTTTCACCG GCTTCAGATG CAGCTGGAGA	300
CAAACTGTTA TCTTGGAGCT CTGTGGGTAG ATTAGCTTCC TCAGTAGGAC TGCCTTCTAC	360
TTTCAGTTCC ACATAATCAT CATCTTCCTC TTCTCTACT ATAGATTTAT CCAAGAATTC	420
TGGCATCTCT GAGGCAGGTC TAGAAATTC	449

## (2) INFORMATION FOR SEQ ID NO:1315:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

GAATTCGGCC TTCATGGCCT AGTGAATAC TAGGATATTT GTTTGGCAGC AATAGAGCGG	60
CAACACCCTT CTCAGACTCG TGGTACTACC CGTCTATCC TCCCTCCTAC CCTGGCACGT	120
GGAATAGGGC TTAATCAGCC CTTCATGGAG GCTCGGGCAG CTATTCGGTA TGTTCAAAC	180
CAGACACGAA AACCAGAACT GCATCAGGAT ATGGTGGTAC CAGGAGACGA TAAAGTAGAA	240
AGTTGGAGTC AAACACTGGA TGCAGAAATT TTGGATTTT CATCACTTTC TCTTTAGAAA	300
AAAAGTACTA CCTGGTTAAC AATTGGGAAA AGGGGATATT CAAAAGTTCT GTGGTGTAT	360
GTCCAGTGTA GCTTTTGTGA TTCTATTATT TGAGGCTAAA AGTTGATGTG T	411

## (2) INFORMATION FOR SEQ ID NO:1316:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

GAATTCGGCC AAAGAGGCCT ACATCCAACA AGAAGCCATA ACTTTATTTA TGATAGAAAC	60
AGTACAAATT TCAAACCAAG CTGCAGTTAC TCCTTTGAGA CACCAAAAAA AGTTGCCTCC	120
ATATGGTTAC ATTGTTAATT CCATAATCGC ATTACAATA TCATTACTGT TGTTCTTCAG	180
GGCTCGGACT GCCTTTGCTC TCGACACATT TGCTTGTTGAC ATGACCAATT CTATGTCCTT	240
AACCTTCTACA CCTGTTTCAC TTCTCTTCT CGAG	274

## (2) INFORMATION FOR SEQ ID NO:1317:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

GAATTCGGCC AAAGAGGCCT AGGCGGAGGT GCAGGTCCTG GTGCTTGATG GTCGAGGCCA	60
TCTCCTGGGC CGCCTGGCGG CCATCGTGGC TAAACAGGTA CTGCTGGGCC GGAAGGTGGT	120
GGTCGTACGC TGTGAAGGCA TCAACATTTC TGGCAATTTC TACAGAAACA AGTTGAAGTA	180
CCTGGCTTTC CTCCGCAAGC GGATGAACAC CAACCTTCC CGAGGCCCTT ACCACTTCCG	240

GGCCCCAGC CGCATCTTCT GCGGACCGT GCGAGGTATG CTGCCCCACA AAACCAAGCG 300  
 AGGCCAGCC GCTCCTCGAG 320

(2) INFORMATION FOR SEQ ID NO:1318:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 226 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

GAATTCGGCC AAAGAGGCCT ATAATTTTTC CCATCATTTA CCCTGATAAT CTGCCTCTTC 60  
 TCCATTTCTC CTTCCCTTAC TACCTTTCTT TGAATTACTG TAACTGATTG GTCCCACCAA 120  
 AATTTTAAAG TACATGAAGT ATCTTCATTG GTTCATCCTC TTGCCCCCTC CAGATGTCAA 180  
 AAAACTTTAT CCTGCCCCCT TGCCTCCACC CGATGGCCCA CTCGAG 226

(2) INFORMATION FOR SEQ ID NO:1319:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

GAATTCGGCC AAAGAGGCCT ATGAAGCTTC TGAGTTCTGC GGCCTCACNT CTGAGAAAAC 60  
 CTCTTTGCCA CCAATACCAT GAANCTCTGC GTGACTGTCC TGTCTCTCCT CGTGCTAGTA 120  
 GCTGCCTTCT GCTCTCCAGC GCTCTCAGCA CCAATGGGCT CAGACCCTCC CCCCCTGGC 180  
 AAATCTCTCG AG 192

(2) INFORMATION FOR SEQ ID NO:1320:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 210 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

GAATTCGGCC AAAGAGGCCT ATTTATTACA ACAGATCTTT TAATGACTAT TTTTAACATA 60  
 AAGATTGTTG TTTTGGGAAA CATCTATTCT CTTGAACAT TTCATAAAT TTTCAATGTA 120  
 TTAAATAACT GACAGAAATA AGTTCTGTGT TCTGTACAAA TTAAAGGTCC CATGAATACA 180  
 TAACCCCCAC CCCCCCCC TCCACTCGAG 210

(2) INFORMATION FOR SEQ ID NO:1321:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 156 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

```
GAATTCGGCC AAAGAGGCCT ATTTTITTTT TGATCTATGA ATGATTTATT AGATAAATTC    60
TATACATACA AAGTACAGAT TCTTCATTTA GCATTGATTT ACTTCTTAGT TTTCATCTTT    120
CTGACTATCC AAACCGCTGA CTCGAGGCAG GTCGAG                                156
```

(2) INFORMATION FOR SEQ ID NO:1322:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 199 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:

```
GAATTCGGCC AAAGAGGCCT ATTTTIGCTA CACTATGTTA CAGAACAGCT TATAAACTA    60
GGTATGAACA TTAAGTGTGA GTGTAAACAG TAGGACTACC ACTTGTCAAA AGTTTAAAC    120
ACTTGAAC TGACTGGTAC TGGTTATTCA TCATTTTCAT TGTTTTCTAT TTCATCCCC    180
CCACACCCCT CTGCTCGAG                                199
```

(2) INFORMATION FOR SEQ ID NO:1323:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 209 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:

```
GAATTCGGCC AAAGAGGCCT ACACGGTACC AACACAACCT CAAGCATCGA CTCCTCCGCA    60
GACCCAGACC CCTCAGCCGA ATCCTCCTCC TGTGCAGGCC AGGCCTCACC CCTTCCCTGC    120
CGTCACCCCG GACCTCATCG TCCAGACCCC TGTCATGACA GTGGTGCCTC CCCAGCCACT    180
GCAGACGCC CGCCACTCAG CGCCTCGAG                                209
```

(2) INFORMATION FOR SEQ ID NO:1324:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 229 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:

```
GAATTCGGCC AAAGAGGCCT AATCACTACT CACAGTAACC TCAACTCCTG CCACAATGTA    60
```

CAGGATGCAA CTCCTGTCTT GCATTGCACT AAGTCTTGCA CTTGTCAAA ACAGTGCACC 120  
 TACTTCAAGT TCTACAAAGA AAACACAGCT ACAACTGGAG CATTACTTC TGGATTTACA 180  
 GATGATTTTG AATGGAATTA ATAATTACAA GGCTCCAAAC TCACTCGAG 229

## (2) INFORMATION FOR SEQ ID NO:1325:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 204 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

GAATTCGGCC TTCATGGCCT AGCTTTCCCA ATCTCTCGGA GCATGCACAT CAGGGCCACG 60  
 TTGGTCTTCC CAGCACCAGT AGGAGCACAC AGCAGCAGAT TCTCATCCGT CTCAAGGGCA 120  
 GCACGGTAGA GCTTACTCTG GATCCGATTC AGTGTTTGA AGCCCTCAA CCCAGCCTGG 180  
 ATTGAATTCT AGACCTGCCT CGAG 204

## (2) INFORMATION FOR SEQ ID NO:1326:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

GAATTCGGCC AAAGAGGCCT AGCCGATCTC CAGCCCAAGA TGATTCCAGC AGTGGTCTTG 60  
 CTCTTACTCC TTTTGGTTGA ACAAGCAGCG GCCCTGGGAG AGCCTCAGCT CTGCTATATC 120  
 CTGGATGCCA TCCTGTTTCT GTATGGAATT GTCATTCCCC CAGAGCGTCT CGAGGCAGGT 180  
 CTAGAATTCTG AG 192

## (2) INFORMATION FOR SEQ ID NO:1327:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 222 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

GAATTCTAGA CCTGCCTCGA GAATAGGATA GCATTTAGTA ATTCACTTAA CAATTTTAT 60  
 TGAATATCTA TTGTTTTATT GAATATGCTT GTTCTCACCT TAGCACATTT GCCCTTGTC 120  
 TCCCTGGGAT ACTATTCCCC TAGATCTGAT TTTTGGTTT TGTGTTTGT TGTTTTAATT 180  
 CTCTGCCATC TTTCTCCAGT CAAATGTCAC CAACTCTCG AG 222

## (2) INFORMATION FOR SEQ ID NO:1328:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 267 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

```
GAATTCGGCC TTCATGGCCT AAGAAATGTT CACTTTTCCA ACTTAAAAGG ATTTTAAAAA    60
ATACAAACAT AATTGACCTA CCTGGTTCAA AGAACAGAAG TGAGGAGAAC TTGCTTAAAG    120
GTATTGATGT TATATTTTCT CTTGACTGAG TGCTTGAAAA AAAATTTTAT TGAACATATG    180
TTCTCCTTCC GTGGCTTTT TGTCTTTGCT TTTTGTTTT GTTTGTGTT TTTTTCCTT    240
GAGATGGAGT CTCACTCTCT GCTCGAG    267
```

(2) INFORMATION FOR SEQ ID NO:1329:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 267 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:

```
GAATTCGGCC TATGGCCTAA AAAAAAAG AAAGAAATAG GATTGATACA GGTATAGATA    60
CATAGATACA TGAGAAGGGA TTTATTATGG GAATGGGCTC ATATGATTAC AATGATTACA    120
GAGGCTGAAA ATCCACAA TAGGCCATCT GCAAGCTGGG GACCAGGGAA GCCATTTATG    180
TGGTACAGTC TAAGCGTCAA TCAGGAAAGC CAGTTGGGTA ACTCTCAGTC TGCAGCTGAA    240
GGCCTGAGAC CCGGAGGTCC ACTCGAG    267
```

(2) INFORMATION FOR SEQ ID NO:1330:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 267 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:

```
GAATTCGGCC TATGGCCTAA AAAAAAAG AAAGAAATAG GATTGATACA GGTATAGATA    60
CATAGATACA TGAGAAGGGA TTTATTATGG GAATGGGCTC ATATGATTAC AATGATTACA    120
GAGGCTGAAA ATCCACAA TAGGCCATCT GCAAGCTGGG GACCAGGGAA GCCATTTATG    180
TGGTACAGTC TAAGCGTCAA TCAGGAAAGC CAGTTGGGTA ACTCTCAGTC TGCAGCTGAA    240
GGCCTGAGAC CCGGAGGTCC ACTCGAG    267
```

(2) INFORMATION FOR SEQ ID NO:1331:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 494 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

```

ATGGATTGGT TGCCGTGGTC TTTACTGCTT TTCTCCCTGA TGTGTGAAAC AAGCGCCTTC      60
TATGTGCCTG GGGTCGCGCC TATCAACTTC CACCAGAACG ATCCCGTAGA AATCAAGGCT      120
GTGAAGCTCA CCAGCTCTCG AACCCAGCTA CCTTATGAAT ACTATTCACT GCCCTTCTGC      180
CAGCCCAGCA AGATAACCTA CAAGGCAGAG AATCTGGGAG AGGTGCTGAG AGGGACCGGA      240
TTGTCAACAC CCCTTTCCAG GTTCTCATGA ACAGCGAGAA GAAGTGTGAA GTTCTGTGCA      300
GCCAGTCCAA CAAGCCAGTG ACCCTGACAG TGGAGCAGAG CCGACTCGTG GCCGAGCGGA      360
TCACAGAAGA CTACTACGTC CACCTCATTG CTGACAACCT GCCTGTGGCC ACCCGGCTGG      420
AGCTTACTC CAACCGAGAC AGCGATGACA AGAAGAAGGA AAAAGATGTG CAGTTTGAAC      480
ACGGCTTACT CGAG                                         494

```

## (2) INFORMATION FOR SEQ ID NO:1332:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

```

GAATTCGGCC TTCATGGCCT AGCTGATATT ATTTCTGAGT TTTTGCTTAT TTGCTTTCTA      60
CATAGAATCA ATAAAATTGA CAACTAGCAT TGCCTATATA TGCAGGTGTG ATACTATTCA      120
GGGTACTAGT ATATTGGCCA CTCATTATGA AACTTTCAGG TCCTCATATA TTTTCTTTTA      180
TTACAATGAT CTACTATTTT CTGATAAATA TTGGATTTCAT AGAGGCTAAA GGGCTGGGAA      240
AGGAAAACAT TCGTGACTAC TTACAACCAT TTGATACGAG TTGTGTCAAT ACAGACCTCA      300
CACAGCAGCA CCTCGAG                                         317

```

## (2) INFORMATION FOR SEQ ID NO:1333:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

```

GAATTCGGCC TTCATGGCCT AGCTTTTCTA GCCTTTCTCA AAGAAATGCA AACAGCTTGT      60
GTTTTTTCCC CTTGGGTCCT ATTGTACCTA CTTTGTGTTG ATGGTCTCTC TGTCTCCCAT      120
GATGCCAGTG AATGTAGCAG TTTCTCTCCA CTTCCACCAG TGCCTGGGGA AAATTTGGTA      180
TTGGCAAATT TGAGTTCTGC CTTTTTGCAG CTTGCATTGC TGGATCAAC CTTAGGAGCC      240
TCAGTTACCC TCGAG                                         255

```

## (2) INFORMATION FOR SEQ ID NO:1334:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GAATTCGGCC	TTCATGGCCT	ACTCTTCCCC	AAAAGGAAGC	ATTTACTCTG	CCTCTTACAG	60
TGCAGAGTGA	CAGAATGGAC	ACAGAAAAAC	ATAGGTGGGT	CAGAACAGAT	CTCAGTTTGA	120
ACCCAGTAGC	TACTGGCTAT	AGGGTCTCTG	GGCAAGTGAT	TTGACCTCTC	TGCGCTCTGT	180
CTTCTCAAAT	GTA AAAACGG	GTCAGGCGCA	GTGGCTCATG	CCTATAATCC	CAACACTCCG	240
GGAAGCCAAA	GTGGGAGGAC	TCTCGAG				267

## (2) INFORMATION FOR SEQ ID NO:1335:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

GAATTCGGCC	TTCATGGCCT	ACAAATGTAA	AAATAACTGG	GCACTGAAGT	TTTCTATCAT	60
ATTATTATAC	ATTTTGTGTG	CCTTGCTAAC	AATCACAGTA	GCCATTTTGG	GATATAAAGT	120
TGTAGAGAAA	ATGGACAATG	TCACAGGTGG	CATGGAAACA	TCTCGCCAAA	CCTATGATGA	180
CAAGCTCACA	GCAGTGGAAA	GTGACCTGAA	AAAATTAGGT	GACCAAACCTG	GGAAGAAAGC	240
TATCAGCACC	AACTCAGAAC	TCTCCACCTT	CAGATCAGAC	ATTCTAGATC	TCCGTCAGCA	300
ACTTCGTGAG	ATTACAGAAA	AAACCAGCAA	GAACAAGGAT	ACGCTGGAGA	AGTTACAGGC	360
GAGCGGGGAT	GCTCTGGTGG	ACAGGCAGAG	TCAATTGAAA	GAAACTTTGG	AGAATAACTC	420
TTTCCTCATC	ACCACTGTAA	ACAAAACCCT	CCAGGCACTC	GAG		463

## (2) INFORMATION FOR SEQ ID NO:1336:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

GAATTCGGCC	TTCATGGCCT	AAATTCTAGA	CCTGCATCGA	GGGCGGCGAC	CTGATGATGA	60
CCAGCTTCGA	GAGGATGCTG	TCCCAGAAGG	ACNTGGAGAT	CGAGGAGCGC	CACAAGCGCC	120
ACAAGGACAG	GATGAAGCAA	ATGGAGAAGC	TGAGGCACCG	GTCCGGAGAC	CCCAAGCTCA	180
AGGAGAAGGC	GAAGCCGGCA	GACGACGGGC	GGAAGAAGGG	TCTGGACATT	CCTGCTAAGA	240
AACCGCCGGG	GCTGGACCCT	CCATTAAAG	ACAAAAAGCT	CTCGAG		286

## (2) INFORMATION FOR SEQ ID NO:1337:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:

CTCGAGGGTT TTTGTTTGGC TGGTTGTGTG TACACAGTGT ATACAAGTTG AGTTGTACAG	60
AAGCCCAAGA AAGAGCAAGA GACAAAGGGT AGTGGGAGCA GGGGGTGGGG CGGGGGCGAG	120
AACGGGGAGG AGGGGAAAGG AGACCCATAA AAAATAGAAC CACATCCAGA CAACAATGGG	180
GGATGGGCAG TGGGTGGGGG CCAGACACAG ACAAATCGCC GTAGAAAAGG AGTGGGAGGG	240
GCAGAGAGTA GAGGG	255

## (2) INFORMATION FOR SEQ ID NO:1338:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:

GAATTCGGCC TTCATGGCCT AAGAGAAAGC ATTTTAACTT TTATAGTAA CAATAAAAAA	60
GCCTCATAAA GCTTCTCACA ACAACTTCAT TCGTTTCAGA AGTTAAGATA TATTCCTTAT	120
GAATACCAAC ATTGTGACAT TTGTGTTGCC AATTATTTTC TCTGGAATCA TTCTTTTAAC	180
TCACTTCCT GTTGTGTTGG AAGACTTTGC AGAGAACATA TTTTAAATAG GCTATAATCA	240
CACGGGCAAC AGACTCGAG	259

## (2) INFORMATION FOR SEQ ID NO:1339:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:

GAATTAGAAG TATTGTTTAA TAAGTCCTTT TTTTCTACTC AACATTAAGT AGTAATCAAC	60
TTTACCTCC GCCAGTTTTT CTGCTTTTTT GCTGGTACGA TCTCTCTTC TAAATTGAAT	120
CAAAGACCTA GGTGGAACGT GAAACTTAGG AGGGAAAGAC AAAATGAGGC TTGTTTCATGA	180
TCAAATTCTG TGTACTCTAG TTGCTTCTTT CCCTTGGAGT GACAGGTACT TTTATATCCA	240
GGATGATTAC AGTGATGACA TCCATTCTTT TTTGGGGGCC CTCGAG	286

## (2) INFORMATION FOR SEQ ID NO:1340:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 240 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GAATTCGGCC TTCATGGCCT AGGAATCAGT AGTGACTTT GATTGTATTG TATAAGGTAT	60
TTTCAAATAG AAAAGCAGGT AGCAGAAATA CTAAAAGAAT TTTTGCTTT AGTGTAAGT	120
AGATAATGAG AGGTAGATGC CTAATTCTTT AGTTTTCTTT TTAAAATTAT GCTAAAATAT	180
ATCATATCAT TTACCATTTT GACTATTTTA AAAGTATACA GTTCCGTGGC AAGTCTCGAG	240

## (2) INFORMATION FOR SEQ ID NO:1341:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 245 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

```
GAATTCGGCC TTCATGGCCT ACAAATGT GTCTTTTTT TGGCAATGTT GTCTTGCCAA    60
TCCCATCCCT CCCCAGCTC TCCGAACAGC AGGATTTCCT AACGGCAGCT TGGGANAAAG    120
ACCCAGTGGC AGCTTGGGGA AAAGACCCAG CGTCCGTTT AGAAGCAACG TGTATCAGCC    180
AACTGAGATG GCCGTCGTGC TCAACGGTGG GACCATCCCT ATTGCTCGGC CAAGTCACAC    240
TCGAG                                     245
```

## (2) INFORMATION FOR SEQ ID NO:1342:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 134 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

```
GCGATTGAAT TCTAGACCTG CCTCGAGACT GACGCCGCAC CATGACCCTC CTGCTGCTGC    60
CCCTTCGCT GGCCTCTCTG CTCGCTCCT GTCCTGTAA CAAAGCCAAC AAGCACAAGC    120
CACCGCATCT CGAG                                     134
```

## (2) INFORMATION FOR SEQ ID NO:1343:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 381 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

```
GAATTCGGCC AAAGAGGCCT AAAAAGCTTC CAGCAGCAGA TGCAGAATTA CCTTAAAGAC    60
AACAAACAG CCACTATTTT GGACAAATTG CAGAAAGAAA ATAAGTCTG TGGAGCTTCT    120
AACTACACAG ACTGGGAAAA CATCCCGGC ATGGCCAAGG ACAGAGTCCC CGATTCTTGC    180
TGCATCAACA TAACTGTGGG CTGTGGGAAT GATTCAAGG AATCCACTAT CCATACCCAG    240
GGCTGCGTGG AGACTATAGC AATATGGCTA AGGAAGAACA TACTGCTGGT GGCTGCAGCG    300
GCCCTGGGCA TTGCTTTTGT GGAGGTCTTG GGAATTATCT TCTCCTGCTG TCTGGTGAAG    360
ACTATTCGAA GTGATGTCTGA G                                     381
```

## (2) INFORMATION FOR SEQ ID NO:1344:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 486 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

```
GACCAGATGG AANGGTCACC GAACAGTTCT GAGTCATTTG AGCATATAGC TCGATCTGCA      60
AGAGATCACG CAATTTCCTT TTCTGAGCCT CGTATGCTGT GGGGGTCAGA TCCCTATCCT      120
CATGCTGAGC CTCAACAAGC AACTACTCCC AAAGCAACAG AAGAGCCTGA GGATGTAAGG      180
TCTGAAGCTG CGTTGGACCA GGAACAGATT ACTGCTGCTT ATTCTGTAGA ACATAATCAA      240
TTAGAGGCTC ACCCAAAGGC AGACTTTATC AGAGAATCAA GTGAGGCACA AGTACAAAAG      300
TTTTTAAGCA GATCTGTGGA AGATGTTAGA CCTCACCATA CTGATGCAAA TAATCAGTCT      360
GCTTGTTTTG AAGCACCTGA TCAAAGACC TTATCCGCTC CTCAAGAGGA GCGGATTTC      420
GCTGTAGAAA GTCAGCCTTC CCGGAAAAGA AGTGTTCCTC ATGGATCTAA CCATACGCGC      480
CTCGAG                                         486
```

(2) INFORMATION FOR SEQ ID NO:1345:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 243 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

```
GAATTCTAGA CCTGACTCGA GGTGCTGGAA TTACAGATAA AAGCCACCAC ACGCAGCCCA      60
CATAAAGTGT TTATGGGAGC AACTAACAGT TGGTTTGAGC GCAGCCTAAA TAGGGGATGG      120
CAAGGTTGGG TTTTCCAAGG TTTTCTAATC TTTCTATTTC TTCTAGTGAG TCCTCAGGTT      180
ATTATGACTT GTGTTACCAG ACTATCAACA AAAGTGGGTA CCTCTTTAAA TCAGAGCCTC      240
GAG                                         243
```

(2) INFORMATION FOR SEQ ID NO:1346:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 294 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

```
GAATTCTAGA CCTACCCCAT CCACATGCAC AGCCAGCTGG ACCACCTTAG CCTCTATTAC      60
TGCAGGTGTA CTCTGCCAGA GAATCCAAAC AATCACACCC TCCAGTACTG GAAGGACCAC      120
AACATCGTGA CAGCAGAAGT CCACTGGGCT AACCTGACTG TCAGTGAATG CCAGGAGATG      180
CATGGAGAGT TCATGGGATC TCGTGCGGC CATCATGGAC CCTACACTCC TGATGTCTCT      240
TTTTGGTCCT GTATTCTCTT TTTCACCACC TTCATCTCTC CAAGCACCTC CGAG          294
```

(2) INFORMATION FOR SEQ ID NO:1347:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 240 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

AGTTTCTCCA TTTTAGAATT TTGTTGTCCT CCTTAATCAT CTGCTTACCT AGTCATTACT	60
CAATCTGCAG AACTTTCATA AAGGAAAAGT GCTGCATTGT TTTACAAAT AACAGTTTGT	120
AGGGAAAATA TGACAAACCT CAACTATGGG AGTTGTCCAC AATACAAAAT TTTGAAAAAA	180
CATTACATAG TGATAATATC ATACTTGGTT GTTAGGCTTG TTGCTTCCCC ACCACTCGAG	240

(2) INFORMATION FOR SEQ ID NO:1348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

AAGTATTCTT TCAATTGCAA AGTGGCAACA GCTTTTATAT GCTAAGTCTG ACAAGTTTGC	60
AGTCAGTGAA TGATGGCACA TGGCACGAAG TGACCCTTTC CATGACAGAC CCACTGTCCC	120
AGACCTCCAG GTGGCAAATG GAAGTGGACA ACGAAACACC TTTGTGACC AGCACAATTG	180
CTACTGGAAG CCTCAACTT TTGAAGGATA ATACAGATAT TTATGTGGGA GACAGAGCTA	240
TTGACAATAT AAAGGGCCTG CAAGGGTGTC TAAGTACAAT AGAAATCGGA GGCATTTATC	300
TCTCTTACTT TGAAAATGTT CATGGTTTCA TTAATAAACC TCAGGACGAG CTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1349:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCTAGA CCGCCTCGA GACCTTCTC CTGGTCTAAT GCTCCTTTTA AGGAAGGTGG	60
AAGGAACAAT GGAAGAATGC TTGTAAAGTA ATGTATTCTT AAGAACTAAA GCTATTTGCA	120
GAAGGGCCGA AGCTATGTGG TGTGAAAGGG AAATGAAGAG GGTGAGTTGG GGGGCTCGAG	180

(2) INFORMATION FOR SEQ ID NO:1350:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

GAATTCTAGA	CCTGCCTCGA	GCTTTCCTG	ATCTTCTTCC	ATCCCTTACT	GACAGTGT	TTT	60
ACCAAGGATT	TCCCTTGGCC	TGCTTCTTTC	TTTGACGCTC	ATTTAAACCT	TTCCTTCAG		120
TTGCAGACCT	CGTCTGCTTC	TCCCAGCTAT	TCCATTCTTC	AGTTGCTTGT	TAAACACGGC		180
CCACCATCAC	CTCAAAAATG	ATGTTAAAAT	GTCCCCATTT	TTTATCAAAC	TTAAGTTTCT		240
TCCTGTGGAT	CTGTTGCTCA	GTA	CTTCTCAT	CTTCCGATC	ACTCGAG		287

## (2) INFORMATION FOR SEQ ID NO:1351:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

GAATTCGGCC	TTCATGGCCT	AAAAAATTCT	TTTTTAATGG	GTTTAAACA	CTAACTGA		60
GAATTTTCT	TGATCCCAT	CTGTTGGTTT	ACTTGATTGC	TATAGCTGTA	TGGTAAATCT		120
CAAATTAGG	TAATGTGATT	TCTTTTCT	TACTATTTT	ATTTAAAT	CATTTAGCAT		180
TCCTAGTTG	ACTTCCATA	TACACTTAG	GATTGGTTT	TCTGTTTTT	AAATATCTT		240
GCTTGGATT	TGATAGAAAT	TGAGTTAAAT	CTATAGATCA	ATGTGTTGGA	AATTGGCATC		300
TTAGTCTTCC	AATTCATGAA	CATAGCCTAC	TCGAG				335

## (2) INFORMATION FOR SEQ ID NO:1352:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

GAATTCGGCC	TTCATGGCCT	ACGTATGAGA	CAGTGTATAT	GACACTGTAT	ATGTGTGAGA		60
CTGTGTGTGT	GAAACACTAT	ATGACACTGT	ATATGTGTGA	CACTGTATAT	GACACTATAT		120
GTGAGACTA	TGTGTGAGAC	ACTATGTATA	TGTGACACTA	TGTATGTGTG	TGACACTGTG		180
AGAGACACTG	TGAGACACCA	AGACAGTATA	TGTATGAGAC	ACCCTGTGTG	TGTGACACAG		240
CGTGTGACTG	TGTGAAACAT	GCTCGAG					267

## (2) INFORMATION FOR SEQ ID NO:1353:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 202 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

GAATTCGGCC	AAAGAGGCCT	ACCCAGAACC	AGTTATACTG	AGGGTCCTGA	GATCTGCTAT		60
AACATCACCA	TCCTTCAAC	CCAGAGGTGT	GTGTTGTGG	GCCATTGATT	TGGCCCTCAC		120
CACATCCTGC	CTTGATTGTC	TAGTTTATCT	TTTTATTGTC	TTTGTCTCC	CCCAACCTCC		180
TGCGCCATAC	AGACTCCTCG	AG					202

## (2) INFORMATION FOR SEQ ID NO:1354:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 285 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

```
GGTTTGATA TCCTGAAAGA TCAATGGGCA GCTGCAATGA CTCTCCGCAC GGTATTATTG      60
TCATTGCAAG CACTATTGGC AGCTGCAGAG CCAGATGATC CACAGGATGC TGTAGTAGCA      120
AATCAGACGA GCAAAAATCA AATTAAAGTA GATCTTGTAG ATGAGAATTT TACAGAATTA      180
AGAGGAGAAA TAGCAGGACC TCCAGACACA CCATATGAAG GAGGAAGATA CCAACTAGAG      240
ATAAAAATAC CAGAAACATA CCCATTTAAT CCCCTGATC TCGAG                      285
```

## (2) INFORMATION FOR SEQ ID NO:1355:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 306 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

```
GAATTCGGCC TTCATGGCCT AGTTATTTCG TCACTGTCGC AAACAGCAGG CAAAGTTTGA      60
CGAGTGTTGT CTGGACAAAC TGGGCTGGGT GCGGCCTGAC CTGGGAGAAC TGTCAAAGGT      120
CACCAAAGTG AAAACAGATC GACCTTTACC GGAGAATCCC TATCACTCAA GACCAAGACC      180
GGATCCCAGC CCTGAGATCG AGGGAGATCT GCAGCCTGCC ACACATGGCA GCCGCTTTTA      240
TTTCTGGACC AAGTAAAGAT GGGTCCGTGG CCCACACTCG GTCATGTGCT CAGACAACAA      300
CTCGAG                      306
```

## (2) INFORMATION FOR SEQ ID NO:1356:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 297 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

```
GGAATGATGT CACTCACGTC CAGCAAAGCC AAAGAGCTGA AGGACCGGCA CCGGGACTTC      60
CCAGACGTGA TCTCAGGAGC GTATATAATT GAAGTAATTC CTGATACCCC AGCAGAAGCT      120
GGTGGTCTCA AGGAAAACGA CGTCATAATC AGCATCAATG GACAGTCCGT GGTCTCCGCC      180
AATGATGTCA GCGACGTCAT TAAAAGGGAA AGCACCTGTA ACATGGTGGT CCGCAGGGGT      240
AATGAAGATA TCATGATCAC AGTGATTCCC GAAGAAATNG ACCCACAGGC TCTCGAG      297
```

## (2) INFORMATION FOR SEQ ID NO:1357:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

GTCCCGCTAA ACCGGCAGGC GATGAGAAAG GAAACCATCA CTAAGATGCT CTGGAGTACC	60
CGCACCTGT TGAATATCAC CAAGGAGCAG GTACCACTTG TGGTGGAGGA GTACCTGGAC	120
AATGTCAATG AGCATGACTG GAAGATGCTA CGAAACCGTA TGATGGACAT AGTTCAAGAT	180
GCCACTTTCG TGTATGCCAC ACTGCAGACT GCTCACTACC ACCGAGATGC CGGCCTCCCT	240
GTCTACCTGT ATGAATTTGA GCACCACACG CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1358:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 244 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

GAATTCGGCC TTCATGGCCT AGGGGAGCAT AAAAATACAA AAAACATTTG GCTTTATTCA	60
CAACGTATTT TGTGAAAACT CAGGAATAAC TCTTTGAATT TTGGGGAAAC CAACAACATT	120
CTCAAAAACG ATGATAATCA ATTTTATTGT GCACCTCTGC ACCCTGCCTC CATGGTCCCA	180
CCACCAGGTT CCCTCTCCTC CACAGTCAGA AGTTCCTCCC TGCATTCAA CACTGGGTCT	240
CGAG	244

(2) INFORMATION FOR SEQ ID NO:1359:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 391 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

GCGATTGAAT TCTANACCTG CCTCGAGGAC CCAAATATTT CTTTGAGATC TTTCTTTCAA	60
TTCTTTTGGA CATATACTCA GAAGAGAGAT CATGGATTA TTTTTTGTTT TTTCAGAAAC	120
TGCTACCGT ATTCCAAAGC AGCTGCACCA TTTCACATTC CCACCAACAT TGCATCAGGG	180
TTCCAATTTT CCCACATCCT TGTCACATT TGTATGTTG TTTTTTGTT TTTGTTTTTT	240
TTTGTTCGC TTTGTTTTGT TTTGTTTTGT TTTGTGCACA CAGTCTCGCT CTGTTGCACA	300
GGCTGGAGTG CAGTGGTACA GATCTCAGCT CACTGCAGCC TCTACCTCTC CAGTTCAAGC	360
AATTCTCCTA CCTCAGCCTC CCCGGCTCGA G	391

(2) INFORMATION FOR SEQ ID NO:1360:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

```
GAATTCGGCC TTCATGGCCT ACATTTTCTT CCTAGTATGG ATATGCTTAT TAATGCACTT      60
GTTTCAAAAT CCCAAATTGC ACAAATGTGT TAATATTTTA AGAAACAAAA TGAATCCTAC      120
AAGGAGAATG ATTTTTCAGC ACACATAGGG TTGGATCTTG AGAGTGACCT ACAGAAATAA      180
AGTACTTTTA AAATAAAGTA GTCAGAGGCT ATTCAAAGGG TAAAATAATC ATAGTACCAC      240
ATTGGTCCAC TTGACACTCG AG                                         262
```

(2) INFORMATION FOR SEQ ID NO:1361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

```
GAATTCGGCC TTCATGGCCT AGACAACCTG AAACCTGGATG ACATGCTGAG TGAAGTCAGA      60
GACAAATGGG ATACCATATG TGGAAAATCT GTGGAAAGGT AAAATGTTCT TTAAGACAGT      120
TTGGTTACTC TGTAAGACCTC TTTCAAATAC ACAGTAATGG TGCTTTGCGG GGACATTTTCG      180
GGAACCTTAA ATATTTCTCT TGCCTGAGGA ACTTCTGCTT GTCCTAAGTA TCCACACAC      240
ATAGCACTCG AG                                         252
```

(2) INFORMATION FOR SEQ ID NO:1362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

```
GAATTCGGCC TTCATGGCCT ACATAGCAGT ACACAGAAAC TCATCTTTGG TCTTAAACT      60
GCATAGGTAC TTTAGTCCTC TGTGACAAA TGTTGGGTTG TTTCAGTCTT CTGCTATCAC      120
AAATAATGCT GCAAAGAATA CATTGTTTCA TATGTCATTT CATCCTTGGC AATTTTGCCT      180
CTGGAAAGTT CCIAGAAGTC AGATTCCCAG GTCAAAGGTT AAATGCGCAT GTAATTTTGC      240
TGGATATTGT TAAATCCCCC TACAGAGCAT GCACCACTCA GCATTCCCCT CAGCTCGAG      299
```

(2) INFORMATION FOR SEQ ID NO:1363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:

GAATTCGGCC	TTCATGGCCT	AGCGAGATCT	GCGTGAAAAA	TACAGCAATT	TTGGCAATAA	60
CTCTTATCAC	TCCTCAAGAC	CCTCATCTGG	ATCCAGTGTG	CCCACCACCC	CCACATCATC	120
CGTCTACCCC	CCACAGGAGG	CCAGGTTGGA	AAGGTCATCA	CCGAGTGGTC	TTCTCACATC	180
ATCCTTCAGG	CAGCACCAAG	AGTCACTGGC	AGCAGAGAGA	GAGAGGCGGC	GGCAGGAGAG	240
AGAAGAAAGG	TTGCAGAGAG	AGCTCGAG				268

## (2) INFORMATION FOR SEQ ID NO:1364:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

GAATTCGGCT	TCATGGCCTA	CCAACCCCCC	CATTTCTCCC	TTCCTCCAGC	CACTGGCAAC	60
CACCATTICA	TGTTCTTTT	GTTTGTGTT	TTTTGTTTT	GTTTTTTGT	TTTTGTTATT	120
ATTATACTTC	AAGTTTTAGG	GTACATGTGC	ACAACGTGCA	GGTTTGTTAC	ATATGTATAC	180
ATGTGCCATG	TTGGTGTGCT	GCACCCATTA	ACTGGTCATT	TAGCATCAGG	TATATCTCCT	240
AATGCTATCC	CTCCCCACTC	CCCCCAGCTC	GAG			273

## (2) INFORMATION FOR SEQ ID NO:1365:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:

GAATTCGGCC	TTCATGGCCT	AATCGGTGTC	TTTGGTAAAA	ATTCTATGAG	GATGACATAT	60
TCCATCATGT	TATTCGTTTC	ACATTTCCTT	TTGCTCAGTC	TCCAATGCAA	GCACAGCTTG	120
TGGTATAACC	TATTGTTTTC	CCATTCTAAT	AACTTCTCAA	TCGATCTTCG	TGTTCTTTTA	180
CTGAGGCAAA	TAAGTGGCCA	CATACTGCAA	CCTAATGTGC	AGCAGCAACA	AAGGCAGCCA	240
CAAAGTAGCC	AACGTACATT	AACAGGAAGG	TTCTTCTTAA	GACAACCTGT	AACTCTGTNG	300
ATGCTGGCTT	TAAATTCTTC	AGGAGCTACT	TTTTCAGTTA	ATGAAGAAGG	GAATTCAGAT	360
TCAAAT						366

## (2) INFORMATION FOR SEQ ID NO:1366:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:

GTTGTTAGGC	TGGTGTGTT	ATGTTGCTGT	TGTTATGCTG	GTCGTGCTGC	TCCATGTTCT	60
CCAGGTGTTT	TTCCCTTTTA	TCGTCACAGT	TACCCCGTAC	ACCTGACAAC	TGGACATCTG	120
CGCCTGGGGT	CTTCAGCCTA	AACACACCTA	AACCCCTCCAC	CAAACCCCTC	TGCTTCCGCC	180

TCCCCGTGTC TGTGAGCGCC TCCACTGCCC ATCCCTCTGC TCAGGCCCA TTTCCAGGGC 240  
TCGAG 245

(2) INFORMATION FOR SEQ ID NO:1367:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 217 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:

GTATTTTGT GACTGAAGTC ACCTTCTAAA TAATTCTAG AATAAAATTT TTATATTGAA 60  
 GAAGTTGGTC TTAACCATTT TTTTTCAGG AGCATGCATT TTGAAATCAT TCTGTGGGAA 120  
 GATGAAAACA AATTTAGTTC TATGCTCTCC CTTTITAGAG ATGTTGACAC TTCCTTAAA 180  
 TGTACCATGC ATGATTGTC TACCACCAG ACTCGAG 217

(2) INFORMATION FOR SEQ ID NO:1368:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 289 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:

GGCTAGAAGC AAGATGGCTG AACTCAATAC TCATGTGAAT GTCAAGGAAA AGATCTATGC 60  
 AGTTAGATCA GTTGTTCCCA ACAAAGCAA TAATGAAATA GTCCTGGTGC TCCAACAGTT 120  
 TGATTTTAAT GTGGATAAAG CCGTGCAAGC CTTTGTGGAT GGCAGTGCAA TTCAAGTTCT 180  
 AAAAGAATGG AATATGACAG GAAAAAGAA GAACAATAA AGAAAAAGAA GCAAGTCCAA 240  
 CCAGCATCAA GGCAACAAAG ATGCTAAAGA CAAGGTAGGG AGTCTCGAG 289

(2) INFORMATION FOR SEQ ID NO:1369:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 230 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:

GCGATTGAAT TCTAGACCTG CCTCGAGTGT TTTTITAAA CTCTCTCTCT TCACTGACAC 60  
 CAGGTGTTGC TATTAATGTG CTCAAATCTC TCACTTATAA AAAAGAATAA AACCTCTCTC 120  
 TTTTCTAGTT ACTGGTCTGT TTATCTTTT GTAGAATGAT CTTTGGGAAG AGTGTITTTCA 180  
 TTTATCCAG TCTCTTCATC TTTTATTCCT TAGTGCACTG TCATCTCGAG 230

(2) INFORMATION FOR SEQ ID NO:1370:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 254 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:

GAATTCGGCC TTCATGGCCT AAACAAACAA AAAGAAGAAA ACACTCAACA AAACCAATCT	60
ACATGTTTTG GACTAAAAAA AAAAATAGAG GTTGATTCT CAGTGTCGA CTCGGAATTA	120
TGTTGCTGCC TCTCTGTGCT TTTGGCCTCT GTGTGGCCGT GTTTTGCCAG CATGAGATAC	180
TGTCCCCTCT GGAGGATTTT AGGGGAGGAA GAGCCACGTC CCCAGGGATT GGAGGAGGCT	240
CCGGCACCTT CGAG	254

(2) INFORMATION FOR SEQ ID NO:1371:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 276 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:

GAATTCAGCT ACACTTGAGT ATTAGGAAGC CATATAGAAT TCGCAGGGTC CAACTTCATA	60
GACTCTATTC ACATTATTAG AGTAGTAGTG GGGACCGTTA CTTTGGGAA AGGATCAGTG	120
AGACAGTATA AACTTTTGAA ATAATACATT TTTGTATTCC AGAATTATTA GATAATACTA	180
AAGCAAACCT TTTTAATGGA ACATTTTGAA GTCCTGTGTA TTTATTTTAA TTTTATTATT	240
TTTGTGAGA CAGAGTTGCA CTCACGCACG CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1372:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 249 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:

GAATTCGGCC TTCATGGCCT ACTCGAATCA TAGTGATTAA AATAGTTGGG GTAAAGTTGT	60
AGCTTATATG CAATACTACT TGGAGGAATT CTTCTACTAA TTTGTATTTA ATGTGGAAAT	120
TGTATAGTTT CATTGATTTA ATCATAAATA ATGGAAATGG TCTCCAAGAA GTTTTATTTT	180
TCATTTTTTT GCTTATACAC TCTGATTCCT ATAATACAGT GCTATAAGCT ATGCACAGAA	240
AATCTCGAG	249

(2) INFORMATION FOR SEQ ID NO:1373:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 218 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

CCCGTTGTCA ATCTTTGGGT TTTATTCCTT TTTAAGAAAAG AAAGAAGTTC TGCTGAATTT	60
GGAAATAAAAT TCTTTATTTA AACTTTCCTT CCCAGTTTTA TAGTTTCTGG TTCTGAGGAC	120
TGATGAAAAT CATCTTCCAT CAGCAGATTT TCTTGCACTG TTTGCTGTGC CCCTCAAATA	180
TAATGTCTTG GGTTTAAGA TCGAGCAGAG AGCTCGAG	218

(2) INFORMATION FOR SEQ ID NO:1374:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

GAATTCGGCC TTCATGGCTT GGGTCTCTCT TTTCCATTTC TGCTTCTTGT TCTCCAGAT	60
CTTCCCCAAA ATAAGCTCAG TGCCAGAAC TTGTGTGGCT TTGGGATATT CCACTGCCCCG	120
GGCAACAGGC AATCTCGAG	139

(2) INFORMATION FOR SEQ ID NO:1375:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

GAATTCGGCC TTCATGGCCT AGCAAGACGC AGCAAAAGTG GAACTTCCAA GATACTAATC	60
TGAGAAGTTT TCAACAAGAA ACAGGTTTAG AATTAAAAAT CAAAACCTCT TTTAATTGTA	120
TTAAGAGTAA ATCATATTTT AAGACAACCT TCTTTTAAAA CAAGGGACCA AAATTTAGAA	180
AGACTTTTAT AAATAATTTT AATTATAGCC AACTTAATCC CACACAAAAT GCTTTTCATA	240
AGTATTCTCT CACAAACACT CGAG	264

(2) INFORMATION FOR SEQ ID NO:1376:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:

CTTAAACCCA GGAGTTAGAG ACCAGACTGG ACAATATAGC GAGACCTCAT TTCTAACCCC	60
CAAAAAAATA TACACACGCA CACACACACA CACAAACACA CACACACACA CACGCATGCA	120
AACTATATTA AAAAAACGGT CATGCTGCAT GGTTTTTTAT TTGTGTTATT TTTATTGTTG	180
TAATGTTACT TTATTTTCTA ATATTTTCTG TTGCGGTTG GTTGAATCCT CAGCTGTGGA	240
ACAGCTCGAG	250

## (2) INFORMATION FOR SEQ ID NO:1377:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 285 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:

```

GAATTCGGCC TTCATGGCCT AATTCCCTCTCTTTTTT TTTGGTTT GGTTAATTG      60
TAATTTTGGT TTCGTCCTGA TGTATATGGA CTGCCAGAAT AGGGGGGGTG GTGGTTTGT      120
CGTGGTGCT GGGGAGGAA GGAATCCTTA CCCTGGCTTC CTTAATCGGG GAAGGCTTCC      180
TGAAGGAGGT GGGCTCAGAG GTGAGTTGTG AATGAAGCGG GTAGGGAGTG GGCTGGGTGG      240
ATGTTTGGG GATGTTGGG GGAGGTGAGT AAAGGGTAAC TCGAG      285

```

## (2) INFORMATION FOR SEQ ID NO:1378:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 384 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:

```

GAATTCGGCC TTCATGGCCT AGAAAGAGCA AATATAATGA AGACTTTGAA AGAGCTTGA      60
GAGAAGATCT CACAATTAAG ATGAATTA AAAACATCTT CTGCAGTCTC CACACCATCT      120
AAAGTGAAGA CAAAAACGGA GGCCAGAGG GAGTTATTAG ATACTGAACT GGACCTCCAC      180
AAGAGGCTGT CCTCAGGAGA AGACACCACA GAATTACGGA AAAAAGCTCAG TCAGTTACAG      240
GTTGAGGCTG CACGGTTAGG TATTTTACCT GTGGGTCGAG GAAAGACCAT GTCCTCTCAA      300
GGTCGAGGAA GAGGCCGAGG GCGTGAGGAG AGAGGAAGGG GCTCACTAAA TCACATGGTG      360
GTGGACCATC GTCCAAACT CGAG      384

```

## (2) INFORMATION FOR SEQ ID NO:1379:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 370 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:

```

GAATTCGGCC TTCATGGCCT AGTCAGGAAC TCCAGTTTGC TTTTCTGTTT TGTGCTCTGG      60
TAGCAGCTGT TGAGTAACCT TCATTGGAGG TTGGGAAGGA AGTGAGGAGA AAGTGTCTT      120
GTTTAGTGTT TTATTTCCCTA TAATAGGATG CTGCCTAACC CAGTTCATCT CTATGCTCTG      180
TTCACCTGAAT ATTCCGGGTA ATTGAAAGAA AATATAATGG ATGGGCTCCA TTAAACCAG      240
CTCAAAAATA AATTCTTGTC AGTAAAGATT TCTTGTCAG ATGTCTTGGA TTGCACTTTT      300
GTTGAGGAAA GACAGTGTAA ATAGTTAAAG AATGTTGATA AAATTGAAAC ATTTGGGCCT      360
TCATGGCCTA      370

```

## (2) INFORMATION FOR SEQ ID NO:1380:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 366 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:

```
GAATTCTAGA CCTGCCTCGA GTTGCTGAAC GGTTCAGATC CTCAAAAAAT AAAGCAATTG      60
AACCTGGCCA TGATTAACTA TGTNTTGGTC GTCTATGGAC TTGCCATTTC TCTCCTTGGA      120
ATAGGACAGC CTGAGGAATT ATCTGAAGCC GAAAACCACT TTAAGAGGAT TATTGAACAC      180
TACCCCACTG AGGGCCTTGA TTGCTTGGCC TACTGTGGAA TTGGAAAAGT ATATTTGAAA      240
AAAAACAGAT TTCTAGAAGC TCTCAATCAC TTNGAGAAAG CAAGAACCTT GATTTATCGT      300
CTTCCTGGAG TGTAACTTG GCCCACGAGT AATGTGATTA TTGAAGAGTC TCAGCCACCC      360
CTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1381:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 472 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:

```
GAATTCGGCC TTCATGGCCT ACTTTAATGA GATAGGAACT AGTATATTCA CCGTCTATGA      60
GGCCGCCTCA CAGGAAGGCT GGGTGTTCCT CATGTACAGA GCAATTGACA GCTTTCCCCG      120
TTGGCGTTCC TACTTCTATT TCATCACTCT CATTTTCTTC CTCGCCTGGC TTGTGAAGAA      180
CGTGTTTATT GCTGTTATCA TTGAAACATT TGCAGAAATC AGAGTACAGT TTCAACAAAT      240
GTGGGGATCG AGAAGCAGCA CTACCTCAAC AGCCACCACC CAGATGTTTC ATGAAGATGC      300
TGCTGGAGGT TGGCAGCTGG TAGCTGTGGA TGTCACAAGC CCCAGGGAC GCGCCCCAGC      360
CTGCCTCCAG AAAATGATGC GGTCACTCCGT TTCCACATG TTCATCCTGA GCATGGTGAC      420
CGTGGACGTG ATCGTGGCGG CTAGCAACTA CTACAAAGAA GAAAACCTCG AG              472
```

(2) INFORMATION FOR SEQ ID NO:1382:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 424 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:

```
GAATTCGGCC TTCATGGCCT AGAGTTTAAC CCAGAACTGG TGCTGGTCTC AGCTGGCTTT      60
GATGCTGCAC GGGGGGATCC GCTGGGGGGC TGCCAGGTGT CACCTGAGGG TTATGCCAC      120
CTACCCACC TGCTGATGGG CCTTGCCAGT GGCCGCATTA TCCTTATCCT AGAGGGTGGC      180
TATAACCTGA CATCCATCTC AGAGTCCATG GCTGCCTGCA CTCGCTCCCT CCTTGGAGAC      240
CCACCACCCC TGCTGACCCT GCCACGGCCC CCACTATCAG GGGCCCTGGC CTCAATCACT      300
GAGACCATCC AAGTCCATCG CAGATACTGG CGCAGCTTAC GGGTCATGAA GGTAAGAAGAC      360
AGAGAAGGAC CCTCCAGTTC TAAGTTGGTC ACCAAGAAGG CACCCCAACC ACCCAAACCT      420
CGAG
```

## (2) INFORMATION FOR SEQ ID NO:1383:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:

```

GAATTCGGCC TTCATGGCCT AGGCAGCGGC CTCTGTCCCA GGGCCCGGGG TGCCAGCGTC      60
CTGCGAGCAC CCAGCTGACC AAAGATGTTT CCCTCTGTAG AAGACTCTGC TAGACTGGGT      120
CTGAAGCTTG AGTTTTCTAA CAGGTGCTGC TGCACAGGTG GAAAGGAGCC GTGGGAATGT      180
GTGTGTGGCA CGGCCCAGAC AAGGGCAGGG CTGAGGGCCT CCGACTCAGC TGGGGGTAGA      240
CGGGCTCGAA TGTGGCCTGG GAGAGCCTAG GGGGCCCCAG GGGTCTGCTT TTCTATGTGA      300
GCCTTTAAAC TTCAGACAGG CCACCACCCT GCACCTGCAG GGGCTTTGGC ACAGGAGTGC      360
TGGCTTTGGA GGGACTGTGG CCTTCATCGT GGTCTCTGCG CCACACCTCC ACGCACACAG      420
ACAGTGCCCT AGGAGGGGAA CAGAACTAAT TACGAGGGGG AGGCAAGAGG ACGCCAAGCA      480
AGGAGTGA CTGAG      494

```

## (2) INFORMATION FOR SEQ ID NO:1384:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 460 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:

```

GCTCGAGAGT GGGGCGTGCC AGTGTGTGCC TGTAGTCCCA GCCACCTGGG AGGCTGAGGC      60
AGAAAAATTG CCTGAACCCG GGGGTGCGAG GTTACAGAGA GAGACTCTGT CTCCCCAAAA      120
AAAAAAAAAA AAAAAAAAAA NNGTCTAAGG GTTANACAAT TCTGTATAAA ATCTCTCCAC      180
AATACATTCA GAAATCTACT TTTGCTGTTG GAGTTGTATC TGAGAGCTGG GGAATTTAAA      240
ATTGCTGAAA ACAGATATAA GGGGAAAGTG ACATAAAAGC AGAAGCTGCC AAAAGGAGGT      300
ATTAGCATCA TCCTCAATTT ACACAGAATC ACATGCTAAG AGAGGCTAAG TATCTTTCCC      360
AAGATTACTC AGCCAAGTTG TGAAGCCAAG ATTTAACTGT ATCTATTCAA CTCTTATCTA      420
ATTATAAAAG CCTATGTTAT TTCCCACTGT GCTACTCGAG      460

```

## (2) INFORMATION FOR SEQ ID NO:1385:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

```

GCAGGAGTAT CTGAGGATGG AGAACTCAGC ATAGAAAACC CCTTTGGTGA AACATTTGGA      60
AAAATACAAG AAAGTGAAAA AACTCTTATG ATGAACACAT TATATAAGCT TCATGATCGA      120
TTGGCACAGC TTGCAGGAGA TCATGAATGT GGCAGTTCTA GTCAAAGAAC GCTTTCTGTT      180
CAAGAGGCAG CTGCGTATTT AAAAGATTTA GGTCTGAAT ATGAAGGTAT ATTTAACT      240

```



TCATTGCAGT GGATCTTAGA AAATGGAAAA GATGTTGGAA TAAGGTGTGT TGGTTTGGC	300
CCTGAGGAAG AATTGACAAA TATAACTGAT GTGCAGTTT TACAGTCCAC AAGACCACTG	360
ATGTCTTTT GGTGTCGTT TCGACGTGCT TTTGTTACTG TAACTCACAG ATTATTGTTG	420
TTATGCTTAG GTGTAGTGAT GGTGTTGTGTC GTTCTGCGTT ACATGAAAATA TCGATGGACA	480
AAAGAAGCGG AGGATCTCGA G	501

## (2) INFORMATION FOR SEQ ID NO:1386:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:

GAATTCGGCC TTCATGGCCT ACTCCAAGAG GCAGTTCTAC ATCAAGATCT CAGACGTGCA	60
GGTGTGTTGGG TATAGCCTGA GGTTCACGC CGACCTCCTG CGCAGTGCAG TGCAGCAGGT	120
CAACCACTCC TACACACAGG GCGGCCAGTT CTATTCCTCT TCGTCAGTGA TGCTCCTCTT	180
GTTGGATATT CCGGACCGAA TTAATCGCCT GGCCCTCCT GTGGCCCCCG GGAAACCCCA	240
GCTGGACTTG TTCTCCTGTA TGCTGAAACA CCGCCTGAAA CTGACCAACA GCGAGATCAT	300
CAGGGTGAAC CACGCCTTGG ACCTGTACAA CACGGAGATC CTCAAACAGT CGGACCAGAT	360
GACAGCCAAC ACTCGAG	377

## (2) INFORMATION FOR SEQ ID NO:1387:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 538 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387:

GAATTCGGCC TTCATGGCCT AGACGACGCC TATGAAGCCC TTAGTCCTTC TAGTTGCGCT	60
TTTGCTATGG CCTTCCTCTG TGCCGGCTTA TCCGACATCA AAGGGATCAA AATTTAAGGA	120
GCTAGTTACA CATGGAGACG CTTCAACTGA GAATGATGTT TTAACCAATC CTATCAGTGA	180
AGAAACTACA ACTTCCCTA CAGGAGGCTT CACACCGGAA ATAGGAAAGA AAAAACACAC	240
GGAAAGTACC CCATTCTGGT CGATCAAACC AAACAATGTT TCCATTGTTT TGCATGCAGA	300
GGAACCTTAT ATTGAAAATG AAGAGCCAGA GCCAGAGCCG GAGCCAGCTG CAAAACAAAC	360
TGAGGCACCA AGAATGTTGC CAGTTGTTAC TGAATCATCT ACAAGTCCAT ATGTTACCTC	420
ATACAAGTCA CCTGTCACCA CTTTAGATAA GAGCACTGGC ATTGAGATCT CTACAGAATC	480
AGAAGATGTT CCTCAGCTCT CAGGTGAAAC TGCGATAGAA AAACCCGAAG CACTCGAG	538

## (2) INFORMATION FOR SEQ ID NO:1388:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:

GAATTCGGCC	TTCATGGCCT	ACCTATTTTC	CATATTCCGT	GTGACTCATA	ATGTACTCCT	60
GCTGTGCTG	ACGGGCAGTG	GTCGGTCAGA	GCAGAAGCTC	AGCTGTGATT	GCTGGGGGAG	120
TTCTGAGCTC	CATGAGCCAC	TCTGGCCACG	ACACCATCTT	TACTTGAAAG	AAAAACTTCC	180
CTTTGATGCT	GAGGCCTCCA	GTGTCATAGA	CGATGCCTTT	GCCCACCCAG	GCGATGGTCT	240
GCGTGGCTCC	ATCTGGGGTG	TGGCTGAGGA	CGGCCAGGGC	TGGGGGATGC	AGGGCGGCTT	300
TGCCAACCCC	ATAGATTCTT	CCAAATCCTC	TCGTCTTCAG	TTCTCATCC	CGGATGATGG	360
TTGGGATGAT	CCCCAGCTCC	TTTCCAACCT	TGTTAATCTC	CTCGAG		406

## (2) INFORMATION FOR SEQ ID NO:1389:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

GAATTCGGCC	TTCATGGCCT	AAATTAACCT	TAATGGGCAA	TCATAAGAAT	AATTGAAAAT	60
AAGGAATTCA	GGGGAGCTTA	ATTCATTTGT	AGGTTTtagg	TGATACCATT	GCTATTCAGA	120
TTGCTTTGGG	CAATTTATGT	AATTTTTTCC	AATGACATCC	AATTTTCATAT	CACTGTAACCT	180
GAAGAAACAG	AAAATTTAGT	TCAGATTTTA	AATCATCATT	CCCTGATGCC	ACCTCATCCA	240
ATGATGTTTC	ATAAACGATG	AAATCACGTA	AGAACCACCT	AAACCAGGAC	TGATAGTCTA	300
TTGCTAGAAA	CTTGAATAAA	TTTCCACTGA	TTTCTGTTTT	CACTGGAAC	AGAACAGAGA	360
CTCCTCGAG						369

## (2) INFORMATION FOR SEQ ID NO:1390:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

GAATTCGGCC	TTCATGGCCT	AAGACCAAAA	CTAAACTGAA	ATTTAAAATG	TTCTTCGGGG	60
GAGAAGGGAG	CTTGACTTAC	ACTTTGGTAA	TAATTTGCTT	CCTGACACTA	AGGCTGTCTG	120
CTAGTCAGAA	TTGCCTCAAA	AAGAGTCTAG	AAGATGTTGT	CATTGACATC	CAGTCATCTC	180
TTTCTAAGGG	AATCAGAGGC	AATGAGCCCG	TATATACTTC	AACTCAAGAA	GACTGCATTA	240
ATTCTTGCTG	TTCAACAAAA	AACATATCAG	GGACAAAGCA	TGTAACCTGA	TGATCTTCGA	300
CACTCGAAAA	ACAGCTAGAC	AACCCAACTG	CTACCTATTT	TTCTGTCCCC	AACGAGGAAG	360
CCTGTCCATT	GAAACCAGCA	AAAGGACTTA	TGAGTTACAG	GATAATTACA	GATTTTCCAT	420
CTTTGACCAG	AAATTTGCCA	AGCCAAGAGT	TACCCAGGA	AGATTCTCTC	TTACATGGCC	480
AATTTTCACA	AGCAGTCACT	CCCCTAGCCC	ATCATCACAC	AGATTATTCA	AAGCCCACCG	540
AGCTCGAG						548

## (2) INFORMATION FOR SEQ ID NO:1391:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

```

GTTTATTTTC ATCATCTACA GAACCAAACT CCCTTTCATG TGCACGAGTG AGAATCTCTT      60
TGTACAGTGT TTCTGCTTGC TTGAACTTTC CTTGTTTCAA ATAGCAGGAT GCCAGGTTAT      120
TTTTCGTCTT AGCCACGTTG GGGTCATCAG GTCCAGTTT TGTCTGGTAG ATCTCGAG      178

```

## (2) INFORMATION FOR SEQ ID NO:1392:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:

```

GAATTCGGCC AAAGAGGCCT AGGGCCCTAT ACCTCCAGCC GTGAATGCCA GACTTTAAGA      60
TTGCCCCGAG GAAGCAAACCT CTTCGTATAA AAAAAGCAGG CCATCTGCTT AACCCCTGGC      120
TCCACCATAA GGCACCTGGA CTCGGATTTC TCTATCTGAT AGAGGTATTT TCTGTGGCCC      180
TGGGAGCTGT CTGTCTTTCC CCTACCCCCA AGGATGCCAG GAAGACGTCC ACCATTAGCC      240
ATGTGGCAAC CTTACTTCT ATGCCTCACA AGTGCCTTTC AGAGAGCCCC AATTCTGCTT      300
TCCCACAAAA TAAACCCAAT GCACTCGAG      329

```

## (2) INFORMATION FOR SEQ ID NO:1393:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:

```

GAATTCGGCC AAAGAGGCCT ATTCCTTTCC TTTCCCTTT GAGATTTTTT TGTTGTTGTT      60
TCCTTTTTGT ATTTTACTGA TATCACCAGG ATAGTTTACT CTCCTTCTAG CTTTCTGCTT      120
ACCGCACACT GGATAACACA CACATACACA CCCACAAAAA TGCTCATGAA CCAATCCGG      180
AGAAGGTTCC AGCAGTCCC CCACCCTCCC CTCCTCCTCC TACTTCTCCT CTTGACAGCG      240
AGGACAGGAG GGGGACAAGG GGACACCTGG GCAGACCCGC CGGNTCTCCC CCCACCCAC      300
CCCGCCCCTC GCATCATACT CGAG      324

```

## (2) INFORMATION FOR SEQ ID NO:1394:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:

```

GAATTCGGCC AAAGAGGCCT AACTGCAACG GAGAGACTCA AGATGATTCT CTTTTTACCC      60
ATGTTTTCTC TACTATTGCT GCTTATTGTT AACCTATAA ACGCCAACAA TCATTATGAC      120

```

```

AAGATCTTGG CTCATAGTCG TATCAGGGGT CGGGACCAAG GCCCAAATGT CTGTGCCCTT      180
CAACAGATTT TGGGCACCAA AAAGAAATAC TTCAGCACTT GTAAGAACTG GTATAAAAAG      240
TCCATCTGTG GACAGAAAAC GACTGTGTTA TATGAATGTT GCCCTGGTTA TATGAGAATG      300
GAAGGAATGA AAGGCTGCCC AGCAGTTTG CCCATTGACC ATGTTTATGG CACTCTGGGC      360
ATCGTGGGAG CCACCACAAC GCAGCGCTAT TCTGACGCTT CAAAACAGAG GGAGGAGATC      420
GAGGGAAAGG GATCCTTCAC TTACTTTGCA CCGAGGCTCG AG                                462

```

## (2) INFORMATION FOR SEQ ID NO:1395:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:

```

GAATTCGGCC AAAGAGGCCT AGAACTGCCA TCATGAGGTC TGACAAGTCA GCTTTGGTAT      60
TTCTGCTCCT GCAGCTCTTC TGTGTTGGCT GTGGATTCTG TGGGAAAGTC CTGGTGTGGC      120
CCTGTGACAT GAGCCATTGG CTTAATGTCA AGGTCATTCT AGAAGAGCTC ATAGTGAGAG      180
GCCATGAGGT AACAGTATTG ACTCACTCAA AGCCTTCGTT AATTGACTAC AGGAAGCCTT      240
CTGCATTGAA ATTTGAGGTG GTCCATATGC CAGAGGACAG AACAGAAGAA AATGAAATAT      300
TTGTTGACCT AGCTCTGAAT GTCTTGCCAG GCTTATCAAC CTGGCAATCA GTTATAAAAT      360
TAAATGATTT TTTTGTGAA ATAAGAGGAA CTTTAAAAAT GATGTGTGAG AGCTTTATCT      420
ACAATCAGAC GCTTATGAAG AAGCTACAGG AAACCAACTA CGATGTAATG CTTATAGACC      480
CTGTGATTCC CTGTGGAGAC CTGATAGCTC TCGAG                                515

```

## (2) INFORMATION FOR SEQ ID NO:1396:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:

```

GAATTCGGCC AAAGAGGCCT AGTCCTTCAC TAGACTATAT GCATTTTATC TTACCTTATT      60
CCTCATTTTA GTGTCCAGTG GCTGGCCTGT ATAAACCCTG AATGTTTTTA AAGATAATAT      120
TTTAAAAGAT CACTTTAGTT ATAATACGGC TTCAGTTGGT GGAATAAAGA AATTTTTTTC      180
TTTTTTTTTA TTTTGAGTAA AAATGATAAC TTCTCTCCAC CCTCTCTATA GTTAAAGCCT      240
TCCATCTGAA GTATGATGAA GTTCGTCTGG ATCCAAATGT TCAGAAATGG GATGTNACAG      300
TATTAGAACT CAGCTATCAC AAACGTCAAT TGGATAGACC AGTGTCTTA CGGTTTTGGG      360
AAACATTGGA CAGGTACATG GTAAAGCATA AATCGCACAT CTCGAG                                406

```

## (2) INFORMATION FOR SEQ ID NO:1397:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:

GAATTCGGCC AAAGGGGCCT AAGAATAGCA AATATCTTGT GCTTAGCAAA AAATAATCTT	60
GAAAAATTTT TCTGAAATAA ATGTTATTGA AAAATGCAAA TAATTAGAAT TAAATACCAC	120
CTGCAGTTCT ACATCCTCTT ATTGGCCAAT GTAAAGAGAA ATCAGGCATG TTAAC TCAA	180
AAAAGGACAA TTCAACAACA TGGAAACCAT GACTAATATA TGGAGAATAC AAAGAAAGAC	240
TAAAGATTTA GATCAGGCTA ATTTCTTTT ATTCCCATCA AATCCAAGTA CCACTCGAG	299

## (2) INFORMATION FOR SEQ ID NO:1398:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:

GAATTCGGAC AAAGAGGCCT AGGAGAGGCG GGAGCCTGGG AGAGCCTCTG CTAGACCTTT	60
CCTGGCACTT CCCAGGAAA GGCAAGGCAG GGCAGATGTG CGGCTGGCCA GCTGGAGTGA	120
TTTCCATGGG CTCCAAGCTG TAGGAGTGGT CCCTGGCTGC CAGAGTGCTC TGGCCAGATA	180
CAGGTGGGCT CTGGACTGGT GAGGCTGCAT TGCGGAGGCG CGCACACCCA GCTGGGCCCT	240
TATCTGTAAG GACTGGCTGG CCTGGGAGGG GCAGTCTCCC ANCCAGAANG TGGAAATTTT	300
TTTTTTTTTT TGAGATATCA AAACATCCTA AGGTACAGGA AAGAAATTGT CNACACACAC	360
GGCTCGAG	368

## (2) INFORMATION FOR SEQ ID NO:1399:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:

GAATTCGGCC AAAGAGGCCT ATTTTTTTGG AGATGTTGAT CAGATGTTCA CTGATAAACT	60
TGAGCCCCCT TTTCTTCCTC TGGTCTACCC ATCTAGAATG CTATGACCCA TCTCAGACAC	120
ACCCCTCTGG GAAGCTGCCT GAGCTCGAG	149

## (2) INFORMATION FOR SEQ ID NO:1400:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 599 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:

GAATTCGGCC AAAGAGGCCT ACTCGATGGA GATAAGTGTT TTAATTACTT TTTAATGTC	60
TGTGCTTTTG TATTTTCTC CTCTCTTCC TTTTATTCC TGCTGTNGAG ATTACTGCCT	120
CATCTCCACA GCAGGTGGCT GTTGCAAATT TGTTTCTTT GTAAGCCTGG AAGATTTATT	180
TTGTAATATA ACTGTTCTT TTAGTATTT TATTATTAAT GATTTCTTTA CTTTGGGATA	240

TAGTGTACTT ACACAGTCCT AACAGTAAT TTCCTAACAC TATCTAAGAA CTCCAATCAT	300
TAAGAAAAAA AATCTTTGCC TGAGGCGTAT TGTTCGAGAT TTTTGCTTAC CCTTACTTCA	360
CAATGCGGGG ATTAAATTTT AAGGAAATTG TTTTATAGCA AAAGCCAAAT GAGAAAAAGA	420
AACAGAGAAA ATAGAAGGGA GGGAAATAAA GAAAAGGAGA AGAGAAAAGG CTCAAGAGAC	480
AAAGTATACT TTAATAAATA ATACCATAAA GCAGAGTAAT GAGGATAAAT TTATGGCTGA	540
AATATGAAAT TACATTAACA TCTTTTCTAG AAATGTTTCA ACTAAACCAA ATGCTCGAG	599

## (2) INFORMATION FOR SEQ ID NO:1401:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:

GAATTCGGCC AAAGAGGCCT ACAGTCACCC TATAAATAG ATTAAGTGTT CCGAGTTCGG	60
TTGGGTTTTT CGCAATTAAA AATTGTGTTA ACAGTTTAGT GTTTCCTACA GATAACACTG	120
ATAACACTTT TTTGTTTTC TGGGTCTTA TCATTGGTAC AGACTGATCC AAAAATCCAA	180
TTGGCTTGCT AGTAATTTTT TCCTGTGAAT TGCTAAGATT TATGGGTAAA TTAAATTTTC	240
TTTTTCTTTT CTTTTTTTTT TTTTAAAGCA TTTGCTCCTT AAATGCAAAT <sup>TM</sup> CGTACCACTA	300
AGATCCTCTC ACAACAGATT AAGGTCGAAT TTGCAGAGAC ACTCGAG	347

## (2) INFORMATION FOR SEQ ID NO:1402:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:

GAATTCGGCC AAAGAGGCCT ATATAAATC AACTTTTCTT TGTCTCTCTT GCCTGTGATG	60
AGTAACAGAA ACCATCTTCC CAGAACTAT CCCCACCCAC CCCCAGCCCA GCCCCAGCAG	120
CCCAGACCCA GGAAGGAGGT CAGAGCCTGC GTGACTGTGT GGCAAGGATC CCCCTCAAAG	180
CAGGCAGTGA TCCCCCTCAA AGCAGGCAGT GATGACCAGG CTCCCCAGGG GAAGGAAAAA	240
TGGTTGATTA CCCCACCTCA CTTTCTCAAG TTCCTGAAAG CCTCCCATCT TTTCAGGATG	300
TTTTCTTCT GCTTCCTTC TGGGGTGATA TTGCAATGCA TGTGTCAGTC CCTCGAG	357

## (2) INFORMATION FOR SEQ ID NO:1403:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403:

GAATTCGGCC AAAGAGGCCT AAGGATTGTC ATAGCCAGGA CCACACTATT GCTTTTTTCAT	60
AACATTTTCT TTTTGTTCCT TTCTTTTGAA TTTCTTACAG GGCTGCAAAG TATGCCAGGG	120

GAGTATGTAG CCCGGGGTGG TCCAATGGGT GTGAGTATGG GACAGCCAAG TTATACCCAA	180
CCCCAGATGC CCCCCCATCC TGCTCAGCTG CGTCATGGGC CCCCCATGCA TACGTACATT	240
CCTGGACACC CTCACCAACC AACTCTCGAG	270

## (2) INFORMATION FOR SEQ ID NO:1404:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404:

GAATTCGGCC AAAGAGGCCT ACAGCCTTTC TTCCCACTTT TAACTATAGA ACTTGCTTTT	60
AATTTCACTG ATATATGGAC ACAGTCAGAC GAGAACTCCT TCATGCTCCT ATTACCACAG	120
CTACTCGAG	129

## (2) INFORMATION FOR SEQ ID NO:1405:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405:

GAATTCGGCC AAAGAGGCCT AATTGCTTAA GCTCCTCAAG TTCTTTTAT TAAGAGTTGT	60
AAGTAAATTT TAATAACAA TAACATAGTC TCTGCTATTT TGATCCTTGC TCTTGCCAT	120
GCTGTTTAC TTATTCTTTA TTGCATGTTT CACATCTATC AATTTTGGGA TATGCTTCTC	180
ACCTTCCTTA CTAAGATGTG AGCTCCGTAA ACGCAACAGC TACCTCGAG	229

## (2) INFORMATION FOR SEQ ID NO:1406:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406:

GAATTCGGCC AAAGAGGCCT AGTGGAGGTA TTTGAAAAT ACAATTTAAC TACAACAACA	60
TTTGCTTATT TTTAGAGTCT TTTATGACAT CAAGAGAAAT GATCCAGAA AGAAAAATC	120
AAGAAAAAGA ATCTGATGAT GCCTTAACTG TGAATGAAGA GACTTCTGAG GAAAATAATC	180
AAATGGAGGA ATCTGATGTG TCTCAAGCTG AGAAAGATTT GCTACATTCT GAAGGTAGTG	240
AAAACGAAGG CCTGTAAAGT AGTAGTTCTT CTGACTGCCG TGAAACAGAA GAATTAGTAG	300
GATCCAATTC CAGTAAACT GGAGAGATTC TTTCAGAATC ATCCATGGAA AATGATGACG	360
AAGCCACAGA AGTCACCGAT GAACCAATGG AACTCGAG	398

## (2) INFORMATION FOR SEQ ID NO:1407:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 131 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

```
GAATTCGGCC AAAGAGGCCT AGTAAAAGTG TCTGATCTGA AACATAATAC CCTCCCTTTT    60
CAATCCTGAT GTACCTTCTT CTAGTCTTGG TCTTTGGCAC CTTTTTTTCA AGAAGAAACC    120
ATACTCTCGA G                                     131
```

(2) INFORMATION FOR SEQ ID NO:1408:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 622 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

```
GAATTCGGCC AAAGAGGCCT AAGTCCAGGC TGTAGGGTCC CTGGTCACAG AGGACCCGGG    60
TCACCCGGGA CTCATCTTTC ACTTATTGTT TTTCAAGTCC AGGGCCCCAT GGATGCCACT    120
GAGATGATT CAGATGTTAC AGTCATCAAG AGGGATTGGG GCCGCATTCT GCCTCATTCC    180
TTGGCTTTTG AAATCAGAGA CGACATTTTC ACTTTAAACA AACCCAAACC ATTCCTGCTG    240
GTGGAGGATT TCTCCTGCAT CTCGGGGGTG GATTTTCACT GATTTATGTC TGCAGCGTGA    300
GCAGTCTCTG GGCTTTTCTG CAGCTCCAGA TGTTAGATGT TTTATCTCTC CGTCTTTTAT    360
CNGCTTCAGT CCTTGCCCCA GTCTATCCTC GCATGCTCCN TCCTNNGGGA GGGCTTCCTG    420
TCTTCACAGC CGCACCTTCC TCCCACTGCT ACCAGTGCCA TGGACCCACT GTATGTTTCC    480
TGGGGGCCAT GCAGAAGGTC CCCAGACCAG TGCTGGCCTG CGACAAATAA GTACAGAAAT    540
GGAGAATAAC CCCTTTCAAA CACATAATAG CATTTGATAG AATCAATCAG GAGACTCAAG    600
TTTTTACTGC GTGCGTCTCG AG                                     622
```

(2) INFORMATION FOR SEQ ID NO:1409:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 328 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

```
GAATTCGGCC AAAGAGGCCT AGAACATGCA GATTTTTCCT CTAGAAAACC CCCTCCCCAC    60
ATTCAGCTTA TTAGAAATCC TTAACAGCAG GTAACCACCA ATGCTCCTGC CTTCTAGCCA    120
CAGTCTGCTC CTGCCCCCTAC AGGCTTTGAA CATGCAGATT TTTCTCTAG AAAACCCCCT    180
CCCTGCATAT TCTCTCCTCT CCCCCTCAC ACAAACACCT GGCCCTGCCAG GCCCCGTGGG    240
GCTGCCGGGC TTCTGTGAAC CTGCCGCCTG CCTTGGAGCT TCGGCCTATG CCTCTGCCCC    300
CCTTACAGAG CCTGGATCCA AACTCGAG                                     328
```

(2) INFORMATION FOR SEQ ID NO:1410:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 324 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410:

```
GAATTCGGCC AAAGAGGCCT NNAAAAAAAA AAACCAAAAA AAAAGAAAAA GCTGACACAG      60
TTCTCTGAAA AAAGCCTAGA GAACACAAGG GTGACACAAA CTCCAGAGAG TATGCTGCTT      120
GCAGCTTTGA TGATTGTATC AACAGTGGTA AGTCACCCCA TGTCTGCAGG AGCAGCTGCA      180
GCTAATTATA CCTACTGGGC CTATGTGCCT TTCCCACCCT TAATTCGGGC AGTCACATGG      240
ATGGATAATC CTATTGAAGT ATATGTTAAT AATAGTGCAT GGGTACCTGG CCCCATAGAG      300
GATCGTTGCC CAGCCCAACT CGAG                                     324
```

(2) INFORMATION FOR SEQ ID NO:1411:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 323 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411:

```
GAATTCGGCC AAAGAGGCCT AGAAGTTGAG TGAAGGAGAA AGAGAGGGAA GTAGAAAAGA      60
GGAGAAAAAT GTTAAGCAAA AAAGGTATTT TCCCTTGGAT ATTAAGTGC ATATCTGAAG      120
AAATGGCATT CCGGACAATT TCGTGTGGG TTGGAGTATT TATTTGTTCT ATCTGTGTGA      180
AAGGATCTTC CCAGCCCCAA GCAAGAGTTT ATTTAACATT TGATGAACTT CGAGAAACCA      240
AGACCTCTGA AACTTCAGC CTTTCCACC ATCCTTTAGA CTACAGGATT TTATTAATGG      300
ATGAAGATCA GGAACAATC GAG                                     323
```

(2) INFORMATION FOR SEQ ID NO:1412:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 149 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412:

```
GAATTCGGCC AAAGAGGCCT AGTTAGTTGC TCTCCTTTT TCTTTTTTTT GTCGTGCATA      60
TTTTATTCT GTAGTTTCTG GTTAGCTACC CTAAAGTGAT TTA'AAATTT AGAATGCTTT      120
GTGTTTCCTA TTTGGTAATC AACTCGAG                                     149
```

(2) INFORMATION FOR SEQ ID NO:1413:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 308 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

GAATTCGGCC	AAAGAGGCCT	AATAAGAATT	ACTTGTAAC	TAGGGGGCA	TTAGAATTA	60
TATTTGTCTT	ATTTGAGATT	TGGATTTAAA	TTTTATTTTA	GAGCATTTT	TAAAAAATAA	120
ATAGAAGTGA	GGCTAATATT	GTTAATTATT	CTCTTTAAAA	AATACAGTAT	TTGCTTTGGG	180
TTAAAATTTT	CTGCCCCAAC	ATCATTATCA	AGAGTCAGCA	TATTACAATG	ATAAATTAG	240
CATTTACTGT	GTGGCAGGCA	TTGTTCTATA	TACTTTATTC	GTAAATTCA	CCAGCGAACA	300
CGCTCGAG						308

(2) INFORMATION FOR SEQ ID NO:1414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

GAATTCGGCC	AAAGAGGCCT	ACTCAGAGCT	GTTACGACTA	GTCAGAGAGA	GCGAGGTGGC	60
TGGTTCATGT	TTGCAGATAG	AGACCTCACT	GTGTGGTGGA	CTTCCCCACT	TCCTGCTGCC	120
TTCATCCTGA	TGGGTGGCTG	CCTTCATCCT	GATGGGTGGC	AGCCTTGCCC	TGCAGTGGGA	180
GACCCAGGTA	ATGTAGTTTT	TTGTTTTGTA	TCCCTGATCT	CTTCTGCAG	TTTTTGCCGG	240
GCAGGTCTCG	AG					252

(2) INFORMATION FOR SEQ ID NO:1415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

GAATTCGGCC	AAAGAGGCCT	AGTGATTGAG	AACCATTGGA	TAATAGCTTG	AAAGCCTAGA	60
TNGACTCTCT	GCATTGCCAC	CCCTCCCTAT	TCTCTTAAGC	CCACTCCATT	CACGCTGTCA	120
TCCACACCAC	TCGGCCACCA	ATTTCACACT	GCCAAATCCA	CTTCCCAGTT	CCTCATCGTG	180
TTTATTNGCA	ACATTTGAAA	CAAGTGATCA	ATCCCTTTTC	CATGAAAAAC	CTTCTTTGCA	240
CAGTTTCCAG	AATTCTAAAC	TTTCCTGGTT	TTCTCCTAC	TTCAACTTTC	CAATTACCGT	300
CCCTCATTTT	TACCTCATCA	GCCCAACTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:1416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

```

GAATTCGGGC CAAAGAAGCC TACAANAAAN TATATATATN TGGATCTTCT GAAAAGTTTT    60
TTGAGGTGCA AGTTTTCTCT CTTTTTTTTT TTTTTTTTTT TTCTCATTGA TTAATGGACA    120
TGATGCTGAG ATTCAATCAC TACATGAAAC ACCTGGCTGT GAAAACAAAA CAACCCAGAG    180
GGCTGTGTTT CAAGCAGCGC TGGGGAAGCT ACGTAACAGT CGGATGCCAG TTTTGAAGA    240
TTCACCATGC GTTCTGACCC TCTGTTCGTC TCTTTCCTCT CCTCTTCTT CAAGAAGGAA    300
ATTGATCCTA GTGATTTTCA CCCATGCATT AAACAGGAAA CTCGAG    346

```

## (2) INFORMATION FOR SEQ ID NO:1417:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 128 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

```

GAATTCGCCA AAGAGCCTAA GGGCAAGCAG CATTCAATATA TCATATGACT TCTACAATA    60
AAATGAAGCT ATTAGCACTA GTATTTAGTA ATCTAGTAAC TCTCCTTCCA GCCCTCTTCA    120
CCCTCGAG    128

```

## (2) INFORMATION FOR SEQ ID NO:1418:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 385 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

```

GAATTCGGCC AAAGAGCCTA GGGGAAGCGCT CTCACGGCA CTGGGATCCG CATCTGCCTG    60
GGATCATCAA GCCCTAGAAG CTGGGTTTCT TTAAATTAGG GCTGCCGTTT TCTGTTTCTC    120
CCTGGGCTGC GGAAAGCCAG AAGATTTTAT CTAGCTTATA CAAGGCTGCT GGTGTTCCCT    180
CTTTTTTTCC ACGAGGCTGT TTTTGGCTGC AATTGCATGA AATCCCAATG GTGTAGACCA    240
GTGGCGATGG ATCTAGGAGT TTACCAACTG AGACATTTT CAATTTCTTT CTGTGCATCC    300
TTGCTGGGGA CTGAAAACGC TTCTGTGAGA CTTGATAATA GCTCCTCTGG TGCAAGTGTG    360
GTAGCTATTG ACAACATCAC TCGAG    385

```

## (2) INFORMATION FOR SEQ ID NO:1419:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 425 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

```

GAATTCGGCC AAAGAGCCCT AGTAGGTTTA TAAACAGAAG TTTAACTTG TAAGCTTAAG    60
CTCCGTTTA TAAACAGAAG TTTAAATTA TAGGTCCTGT TTAACATTCA GCTCTGTTAA    120
CTCACTCATC TTTTGTGTT TTTACACTTT GTCAAGATT CTTTACATAT TCATCAATGT    180

```

CTGAAGAAGT TACTTATGCA GATCTTCAAT TCCAGAACTC CAGTGAGATG GAAAAAATCC	240
CAGAAATTGG CAAATTTGGG GAAAAAGCAC CTCCAGCTCC CTCTCATGTA TGGCGTCCAG	300
CAGCCTTGTT TCTGACTCTT CTGTGCCTTC TGTGCTCAT TGGATTGGGA GTCTTGCAA	360
GCATGTTTCA TGTAACCTTG AAGATAGAAA TGAAAAAAT GAACAACTA CAAAACATCC	420
TCGAG	425

## (2) INFORMATION FOR SEQ ID NO:1420:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 264 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

GAATTCGGCC AAAGAGGCCT AAGACGCATG CCTGTAATCC CAGCAACTCG GGAAGCTGAG	60
GCGGGAGAAT CGCTGAACC CGGGAGCGGA GGTGCGGTG AGTTGAGATG GCGCCACTGC	120
ACTCCAGCCT TGGCAAAAAG AGCAAACTT CATCTCAAAA AAAAAAAG AATGTGTGGA	180
ATAATGGGGG TTTTTCCTT ACTTTGTGG CTATTCTCA CTTACATGGG GATAGCCTTG	240
GTCTTTGACT TGGATAGCCT CGAG	264

## (2) INFORMATION FOR SEQ ID NO:1421:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 144 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

GAATTCGGCC AAAGAGGCCT AAGTGAATCG ATGTTCTGGC TTGGCTGTCT TTGGTGTCTT	60
CATTCTTTCA TTTCTTCTC CCTGTCCTCA TCTCTCTCTC CCCGTGCCCT GCTCCCTACA	120
CCTATCCCTC CCCCTACCCT CGAG	144

## (2) INFORMATION FOR SEQ ID NO:1422:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

GAATTCGGCC AAAGAGGCCT AGAGAGAATA AAATACATAT AGTTGATTAA AGGAAGGAAG	60
TTTATTACTT AGGGAAAAGG AAGGTAAAAA AAGACCCTAA GCAATAAAGG CAATTCTTTT	120
TTAAGCAGAA TACTTTTATT TTATTTTATT TTTGTTTACC AGTGTGTGTA CGAAACTGC	180
TGCTGGGGCT ACTTCAGCTG AGATGATTG GCTCTTTTTT GTGGCTTTCT TCTGTCTCTG	240
TACATCAGCA CTGTGGTTAT TACACCAGCT ACCAAGTCAT CTCGAG	286

## (2) INFORMATION FOR SEQ ID NO:1423:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

```

GCGATTGAAT TCTAGACCTG CCTCGAGACA GAGCAAGATT CCGTTCCCAA GAAAAAAAAA    60
TTGTTCAACA ATAAGGGCAA AGGGAGAGAA TCATAACATC TGATTAAACA GAAAAAGCAA    120
GATTTTAAAA ACTAACTATA TAAGGATGCA TCTCGAG                                157

```

## (2) INFORMATION FOR SEQ ID NO:1424:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 408 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:

```

GAATTCGGCC AAAGAGGCCT ACTCAAAGA CAAAAAGAT ACATTAGGCA GTGTTCTGTA    60
AACATGGGAA AATTATTTTA GGTTAAATGG GCTGAGAAGA AATTGCTAA ATTTTGCTTT    120
TGTTACCACG TTTCCTGAAA TGATGATAAT AAATAATATT TAAAAGGGT GAATAGAAGG    180
ATCTTTATTG TAGGTACTGG TGTTAAAATT TAGGTTTCTG AATAATACTG TAAAGCTACT    240
TTCTTTTACAC AGATTAACAC ATTTATCTTC TTGAATTATT TAATAATGAA TGTCAAAAAA    300
TTCGAAATCT CATATAAGAT CTCACCTTGA AACAAAGTAT ATAACTGTT GATTGCACAA    360
TTTGGGTTTT GTGAAGCAGT CAGTTTTGAC TATAAGTGGC AGCTCGAG                408

```

## (2) INFORMATION FOR SEQ ID NO:1425:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:

```

GAATTCGGCC AAAGAGGCCT ATTCTTGTCT CCTAAGAATA ACTGTGCTTG AAGAAGAAAA    60
TTCCCAACAT GGACAAACCA CGCAAAGAAA ATGAAGAAGA GCCGCAGAGC GCGCCCAAGA    120
CCGATGAGGA GAGGCCTCCG GTGGAGCACT CTCCCGAAAA GCAGTCCCCC GAGGAGCAGT    180
CTTCGGAGGA GCAGTCCTCG GAGGGAGGAG TTCTTTCCTG AGGAGCTCTT GCCTGAGCTC    240
CTGCCTGAGA TGCTCCTCTC GGAGGAGCGC CCTCCGCAGG AGGGTCTTTC CAGGAAGGAC    300
CTGTTTGAGG GGCGCCCTCC CATGGAGCAG CCTCCTTGTG GAGTAGGAAA ACATAAGCTT    360
GAAGAAGGAA GCTTTAAAGA AAGGTTGGCT CGTTCTCGCC CGCAATTAG AGGGGACATA    420
CATGCAGAA ATTTAAGCAA TGAGGAGATG ATACAGGCAA CTCTCGAG                468

```

## (2) INFORMATION FOR SEQ ID NO:1426:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:

TTTGACCAGA TTATTCTTCT ATGCTTTTTT GCAATAAATC AAATCCCACA TATCTACAAG	60
TGGTATGAAG TCCTGCACCC CCCAGGAGGC CTGTCCAGGC ATGTCTTCAG AGGCAGGGTG	120
GGTTACACTC ATTTACCTCC CCTCTCCCCA CCAAATTATG ACACAAACGA GTATGTTTCC	180
TCTCTAGAAC CCTGTAATGC CTCCTCCCCC ATCCCCAGAG CTCCTTACTG TAGGTCTTAC	240
CCTGGACAAG GATTTTTTCA AGTTGGAGGC ACAGAACATG AGCAATCTGA CATTCCCACA	300
GGCCTCGAG	309

(2) INFORMATION FOR SEQ ID NO:1427:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 501 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GAATTCGGCC AAAGAGGCCT AAGTGAGGAC AGGGCAAAGA TTTTATAGTC TCCTGTAAAC	60
AGGAAGTGTC CTAGTCTGAC GTAAGTCTGTA CGTTGTACCT GGATGGCCTC TTTCTTGATC	120
TTCACGGGTA CGTGTCTTCC AGCCAGGGTA GGTGTCTTCC GGCCGGCTTT CTTCTGCTT	180
CTGCTATTTT GCTGGCCAC ACTGCTGGCG CAAGGCTTGC GCCTTGGTAC TGGGCCTGAG	240
AAGGGAGGAG TTATTCATCC CCTAAGCTT TCAGGCCCCA GGGAGAATCT TACACTACTG	300
GGCTGCATTT CCAGACAATT AGGGCATTCT AAGGCACAGG ATGAGGTAGG AGGTCCGCAC	360
AAGATACAGG TCATAAAGAC CTTGCAGATA AAACAGCTTG CAGTAAATAA GCTGGCCCAA	420
ACCCACGAAA ATCAAGATTG TGACCAGAGT GACCTCTGG TCATCCTCAC TGCTACACTC	480
CCACCAGCAT CACGACTCGA G	501

(2) INFORMATION FOR SEQ ID NO:1428:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAATTCGGCC AAAGAGGCCT AGACCTTGTT TAGTGTGTA AAGTTCTTCC AGTCTCGGAA	60
TGGTAAGGAA TTTATGCATG CTTACTCCAT TTTCAATAAG AAGTTTACA AATGCAACTC	120
TATCCATTAC TCGAG	135

(2) INFORMATION FOR SEQ ID NO:1429:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 245 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

```
GAATTCGGCC AAAGAGGCCT AGGGGCAGCG AATGTTTTA GAAGCAGAAA ACTTTCCAAA   60
TTTGGTGAAA GACATAAATT TACAGATTTC AAGAAGCTCC ACAAATTCCA AATATGATAA   120
ATATGAAGAA ACTCATAGCA AGGATGCTAT ACCACACACT TCTGAATAAT CCACAGGTCA   180
AAGAAGTCAG ACTCTCCGGT CTGACATGTA AAGGCCTGG AAGTCGTCAC TCCCATCCTC   240
TCGAG                                         245
```

(2) INFORMATION FOR SEQ ID NO:1430:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

```
GAATTCGGCC ANNAGAGGCC TAAGAACTG GAAGTGCCTT TCATCTCCTC CCCCACCTAA   60
CTCCCCAGAA TTAATCACA AACTTTTGT GTGTATATG TTCTGGAAAT TGTAATGT   120
TAAACAAATC TACTAAGGTA TACTCTCTG AATTTTCCT TTGAAATTT AGTTTATAAT   180
TTGGATTTAT TTCTTGATGA GCACATGCTA AACTCATTC ACCCTTTTTT GATGAAAATT   240
ATTACATGTT TATTAATATA TCACATTCCC TCCCTCCCTG TCCCTTTTTT CCCCATAAA   300
ACACAATACT GTCAACTCGA G                                         321
```

(2) INFORMATION FOR SEQ ID NO:1431:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

```
GAATTCGGCC AAAGAGGCCT AGTGTGAGAC ATTTGTCATT GCTCAGAATT TAAAAATTGC   60
ATTCCAAGCT GTTGGATTG AGTTTAAGTG AGGCCAAACT GGGGCGAGAT CAAACACACC   120
ATCAAAGAAT TACACACATA TCCTGTGGC CACATCGCTT TTGTTGTTG TTCAAGGAT   180
GCTGTGTGTG TTAAGAGGT TAAGACTCTT CTCCTTGGCT GAGGGATCTC CTCTGGAGAT   240
TTTGAAAACA GGAAACAGAT TTCTCTCTCC CTTCTCTGGT AGTCTTCCTA TTCGTGTTAG   300
AAACAATCAA CTCGAG                                         316
```

(2) INFORMATION FOR SEQ ID NO:1432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

GAATTCGGCC AAAGAGGCCT ATAAAAATGC AAAAAATCCA GTCTAAATAT TGTCTATAGT	60
TTTTTAGGAT TATAGTGTA TCTGCTCTTT TAACTTATGT ATCTCTACAG CCTGCCACCA	120
TATAAGCTTT TAATTATAAA ATTATGATGC TTGACATTGG GGAGAAAGGA ACATAAGCAC	180
CCATAATGAG TCATTTTTGT TGACTGTATA AATGAGTCAG AGTTACATGT AAGGATGAGA	240
ATATCCTCCT ACAATTTTGG TTTTGTATCT TGATTTTTC CCATTGACTC TCTTTCTCC	300
CCGCCATTCT CTCTCTTGCA CGTAGCACAC TTTTGCCTC TGTCTGCTAT TACTGCTATT	360
ATAAACCTTT TACTGGACTT CAGTTGTAGT GACCATTAGG TCCTAAACAT AGAACTAAGA	420
GCGTAAGTGG ACTTTAATAG AATACTTATT AATTTTAATA ACTAGAGTTC ATAATTAGA	480
ATTAATATAT GAGAATTTAC TGTATAATCC TCGAG	515

## (2) INFORMATION FOR SEQ ID NO:1433:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:

GAATTCGGCC TTCATGGCCT ACTGCTTTTT TTTCTCTTTT TTCTTTTCC CTTTGGACTT	60
TTGAGGCTCC TGTTCTTTGG CAGCACCAGC TCCTTCTATT TCTGCAGCCA AGGCATCAAG	120
ATCAATGTCA TCCTTGGTGC TGTCTTCGCT CTGTGTTTTT TGTTTCTTCC CCATTGCTTG	180
TCAATGGCGC TCGTGGCCCC AGCCCCCTA TTCGGTCTCT CACAGACCCA CTGTCTCCCG	240
GCTGACTTTG GTCTCCGCTC AGCTCTTTTC CCCTCGTGCT GCCGCCGCTC GCACCCGGCT	300
CGAG	304

## (2) INFORMATION FOR SEQ ID NO:1434:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:

GAATTCGGCC AAAGAGGCCT AGAATTTATG TAATCCCAGG GTGGCTACCT ATTTCACTAG	60
TATTCCTCTC GGCTCAGTTT TAAATTTATT TTAGAAGCTT GGATTTCTCC CTAAGAGTTC	120
AAATTTTCCC AATTATATT GGCTTCCAGT TGACTTTGAT ACTGGAATTC TCTGCCAGGA	180
AGGAGTGAGG CCATCATGTT TCCAATTATG CCATCAGTGG CATCTCTGAT ATTTTGCCAC	240
GTGTTGCCCC TGTACAGCCC TGAGGTGTTG GGCAGAGGAG GCCAACTCGA G	291

## (2) INFORMATION FOR SEQ ID NO:1435:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:

```

GAATTCGGCC AAAGAGGCCT AAGACCCCCC TCAGCCTCCC GGAGTGCTGG GATTACAGGT      60
GTGAGCCAAT GCATCCAGCT GACTTTTGGA CTCTATCTTG AGGTAGCTGG GAGCCACTGA      120
CATATGTCAA GCAAGGGATT GACATGATCA GATTATTATG TAGAAAGGCC AGTCGCTCTG      180
TCTACAGTGT GGAGAGTGGA TTGGGAGGCA GAATGACCAG TCTGGAGGCT ATTATAGTAA      240
TCCAGGTTAC AGATGGGGGT AATGAGACCT AGGCAGGTAA TAGCGTGGCT AGAAGGAATG      300
GATAGATTCC AGAGACATTT GGAGGTGAAA TCAGGGGCTG GCGATTTAAC TGGGTATGAA      360
TAAAGAGGTA GAAAGAAGAT TTGAGGATGA TGCTCAGCAT TGAACAAGAG GGTAGACTCG      420
AG

```

## (2) INFORMATION FOR SEQ ID NO:1436:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

```

GAATTCGGCC AAAGAGGCCT AAGCTAGTTA TATGTTATTC TGGGAAAAAA TATTATTTGT      60
AGTTATTGCT ATCATGAAAA ATAAAATTTT ATGTGTCCTA AATTTAATTA TATTTATGA      120
AACATTAACC CTGACACTCG AG

```

## (2) INFORMATION FOR SEQ ID NO:1437:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

```

GAATTCGGCC AAAGAGGCCT ACGTACATTT ACTCTTTATA CATGTTTTTT TTGTATGTCA      60
TACCTTTACA GTCATTATTC TTCTTGATGT TCATATCTCC CCATCTTGG CCAGTTAGAG      120
CATTTCCAAG TGAGCTCCTG TGTCTTTTG ACAAGACCCC AGTAATCGTT CTGCTTTTAG      180
ATAGAATAAG ATGTTTGAGG ATTCTTTTAT ACAACTTTAC CCTAGACCTG AACTCAGACA      240
TCTCTCCAAG GAGCGAACTC GAG

```

## (2) INFORMATION FOR SEQ ID NO:1438:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

```

GAATTCGGCC AAAGAGGCCT AGCAGCCTCT GCCTCCCGGG TTCAAGTGAT TCTCCTGCCG      60

```

CAGCCTCCTG	AGGATCTGGG	ATTACAGAGG	CTATTTGGAA	GCTCCAGACT	GTTTAGAAGA	120
CCTGGACAGC	CAGAAAGTCA	TTAGTCCTAT	CCAAAATGAA	GCAATTTGTG	CAGGAAAAAC	180
AGATATTTTA	TGGAAGAAGT	GTGAGTTTCT	GGTAAATCGA	ATGTGCCGTC	TTGAAAGCCT	240
CATGCAGTCC	TTGAAGATGA	ACATCTTTTC	GCTGCAAACT	GAAAAGGATT	TGAATCCTCA	300
GAAAACAGCT	TTTCTGAAAG	ATCGACTGAA	TGCAATACAG	GAAGAGCATT	CTAAGGACCT	360
GAAGCTGTTG	CATCTCGAAG	TTATGAATTT	CGGCCAGCAA	CTGAGAGCTG	TAAAAGAGGA	420
AGAAGACAAG	GCACAAGATG	AGGTGCAAAG	GTTGACTGCC	CCCTCGA		467

## (2) INFORMATION FOR SEQ ID NO:1439:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 103 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

GAATTCGGCC	AAAGAGGCCT	AGGCAGATCT	GGCAACTTTC	ATATCTGATA	TTATGTTACT	60
GAAACTAATT	TTAGGTCGCT	TTGCATCTCT	CTGTGCCCTC	GAG		103

## (2) INFORMATION FOR SEQ ID NO:1440:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 465 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

GAATTCGGCC	AAAGAGGCCT	ACATNTTTGA	ATCTTAAACT	GNNTTTTCT	CTTAGTATTG	60
CTAATGAGTA	AAGAAAAGTC	TCATAAGGTA	GCCAAATCAA	AAAGAATGAA	AGGGAAAGTG	120
AAAAATTAAG	GGGACNAAAG	ATGGGATGTG	AAAAGAAGAA	TTCTAGTTTG	ATGGTGACTC	180
ATATTCACGA	TAGGATACAA	AGTGTGATTT	GTTGGAAACA	TGTCCCAAAT	TTCTAAAATT	240
CTGCTTCTCT	GCCAAAAGCA	ATGTCTTTCT	TGGTTGATAT	TTGAGITTTA	AAAGGGTCAA	300
ATCTTTCTAA	TTTTTTGTAT	CTNNAGAGGG	CAGCACTAGA	AGAAATCAGC	AGGTCTAATC	360
CCACCAGTAA	GAAAACCTACC	ACTTCTTGAT	TTTACAGAT	TTAAAAAAAT	CTTTTCAGTG	420
ACCTTTCTTT	TTAATGTAAA	TACAAATTTA	AACCTTAGGC	TCGAG		465

## (2) INFORMATION FOR SEQ ID NO:1441:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 336 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

GAATTCGGCC	AANGAGGCCT	AGAATTATAC	AGGTAGAGAT	GTATGCAGAT	GTGTCCATAT	60
ATGTCCATAT	TTACATTTTG	ATAGCCATTG	ATGTATGCAT	CTCTTGGCTG	TACTATAAGA	120
ACACATTAAT	TCAATGGAAA	TACACTTTGC	TAATATTTTA	ATGGTATAGA	TCTGCTAATG	180

AATTCTCTTA AAAACATACT GTATTCTGTT GCTGTGTGTT TCATTTTAAA TTGAGCATT	240
AGGGAATGCA GCATTTAAAT CAGAACTCTG CCAATGCTTT TATCTAGAGG CGTGTGCCA	300
TTTTTGCTT ATATGAAAT TCTAATCCCT CTCGAG	336

## (2) INFORMATION FOR SEQ ID NO:1442:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTCGGCC AAAGAGGCCT ATGATTTTTA GACATCCAGA AAGCAAACCT TAACTGTCTG	60
TGAGGTACAG AGACTGGATG ATGTTAAAGA AAACCATAGT TGGACACAAG ATACTCGAG	119

## (2) INFORMATION FOR SEQ ID NO:1443:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTCGGCC AAAGAGGCCT AGAGAAATTT TAAAAAGCAT AGTTGAGGCA TATTTTTC	60
TAATTATATA CTTATCTGTT TATTGCCCAT GGAAAATATA TGTGTAGAAG TATTTCTTCT	120
GTTATTTGTT ACTATCTTCT TAATTTGTTC CAAAGAAAAT GCTGCCATAC TGCATTCCT	180
CTGGAAGGAA ACAAACAAA ACAAACCTCT CGAG	214

## (2) INFORMATION FOR SEQ ID NO:1444:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 499 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GAATTCGGCC AAAGAGGCCT AGGAAAGGAA AAATTA AAAA CCCTAGATCT CTGGTACACA	60
TAAGTCTGGG TTTGCGATTG CTATTTGTGC TGGGGCAGTG TGATTGAGAC TGACATTGAG	120
GAAAGAAGCA GCTATGAAGA CCAGGGGGTT CAGCTTTCCA AGACAAAGGC AAGTCCTGTT	180
TCTTTTCTT TTCTGGGGAG TGTCTTGGC AGGTTCTGGG TTTGGACGTT ATTCGGTGAC	240
TGAGGAAACA GAGAAAGGAT CCTTTGTGGT CAATCTGGCA AAGGATCTGG GACTAGCAGA	300
GGGGGAGCTG GCTGCAAGGG GAACCAGGGT GGTTCCGAT GATAACAAAC AATACCTGCT	360
CCTGGATTCA CATACGGGA ATTTGCTCAC AAATGAGAAA CTGGACCGAG AGAAGCTGTG	420
TGCCCCATAA GAGCCCTGTA TGCTGTATTT CCAAATTTTA ATGGATGATC CTTTCAGAT	480
TTACAGGGCC GAGCTCGAG	499

## (2) INFORMATION FOR SEQ ID NO:1445:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 329 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GAATTCGGCC AAAGAGGCCT AAAATTTGAT TAGAAATGCA AGACTGGATG CCAAGATTGA	60
TTCTAAATTA GGTTCATGTG TTATGGGTAA CAATGCAGTC TCACCCTATC AGCAAGTGAT	120
TGAAAAGACC AAAAGCCTTT CCTTTAGAG CCAGATGTTG GCCATGAATA TTGAGAAGAA	180
ACTTAATCAG AATAGCAGGT CAGAGGCTCC TAACTGGGCA ACTCAAGATT CTGGCTTCTA	240
CTGAAGAACC ATAAAGAAAA GATGAAAAAA AAAACTATCA AAGAAAGATG AAATAATAAA	300
ACTATTATAT AAAGGTGAC TTACTCGAG	329

(2) INFORMATION FOR SEQ ID NO:1446:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 607 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

GAATTCGGCC AAAGAGGCCT AACAGAGGAA ACCACCCTTC AACTGGAACA TATCATTA	60
CAGAGGATAA GAGATCAGGC TTGGGATGAT GTAGTACGTA AAGAAAAACC TAAAGAGGAT	120
GCATATGAAT ATAAAAAGCG TTTAACCTTA GACCATGAGA AGAGTAAATT GAGCCTTGCT	180
GAAATTTATG AACAGGAGTA CATCAAACTC AACCAGCAAA AAACAGCAGA AGAAGAAAT	240
CCAGAACATG TAGAAATTCA GAAGATGATG GATTCCCTCT TCTTAAATTT GGATGCCNTC	300
TCAAACCTCC ACTTTATCCC TAAACCGCCT GTACCAGAGA TTAAAGTTGT GTCAAATCTG	360
CCAGCCATAA CCATGGAGGA AGTAGCCCCA GTGAGTGTTA GTGATGCAGC TCTCCTGGCC	420
CCAGAGGAGA TCAAGGAGAA AAATAAGCT GGACATATAA AAACAGCTGC TGAAAAACA	480
GCTACAGAAC AACTCGAGGT GTGGGGAAAA GAAAGAGAGA TCAGATTGTT ACTGTGCTG	540
TATAGAAAGA AGTAGACATA GGAGACTCCA TTTGTCTCTG TACTAAGAAA AATTCTTCTG	600
CCTCGAG	607

(2) INFORMATION FOR SEQ ID NO:1447:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 467 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

CTGCTGCAGC AATATTCAGA TTGAAAAAA TAGGTTTGGG TTCCTGAGT TTAAAGGGAT	60
GATGATAAAA AGGAGGTTCT TCTTCCTCTT CATCCGAAAC ATGAGGTTTA TTCATTATTA	120
CATCATCATC TTCTTTACTC TGTGCGATCT GTTTACATT CTCAGTTAGT TCTTCTATAG	180
TAGCTCCTCC TGACTTTTGA GCAACTTTCT CTCTATAGT AGGTGGAGGT GCAGGCTTTA	240
GGTTTGGTGG TAAAGGGACA CCAGCCTTAG CACACATGGC AGCTGCATTA GCTTTGGCTA	300
TTCAAGTAA TTGAGCCTTA TCCAATCTG TCAGACGTTT GGGTGATCTG CCTCGTTTCTG	360

AAGACCTGGA TCTTTTACGA CGGATGGGAG ATCTGCTAAA CCTTCTTCTT AAGGGTGTTC 420  
 TTGATCGCCT TAATCTGACT GGTGAGTAGG CCTCTTTAGC CGAATTC 467

(2) INFORMATION FOR SEQ ID NO:1448:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 128 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:

GAATTCGGCC AAAGAGGCCT AGACACTTAT AGGCTTTTAA AGAAGCATTG ATCAATTGTC 60  
 AAACCTAGTG CTACATCAGA CTGTGGAGCG TATTCATGTG GGCAAAAAAT ACGGTGATAT 120  
 TCCTCGAG 128

(2) INFORMATION FOR SEQ ID NO:1449:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 314 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:

GAATTCGGCC ACNGAGGCCT ATTTAAATGA AAATNATTG AATGTTTAAT ACTCTTCCCT 60  
 TCTTCAATTG TAGAAACATT ACCCTTTTGC ACTATCTCAT CACTATTGTG GAAAATAAGT 120  
 ACCCCAGTGT TCTCAATCTA AATGAAGAAT TGCAGATAT TCCTCAAGCT GCGAAAGTAA 180  
 ACATGACTGA GCTGGACAAA GAAATAAGTA CCTTGAGAAG TGGCTTGAAA GCAGTAGAGA 240  
 CAGAGCTGGA ATATCAGAAG TCTCAGCCCC CACAGCCCCG AGATAAGTTT GTGTCTGTTG 300  
 TCAGCCATCT CGAG 314

(2) INFORMATION FOR SEQ ID NO:1450:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 432 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:

GGAATTCGGC CAAAGAGGCC TAGTGGTTTT CCCAGGAGGA AAGAGAGCTG CAGGGATACA 60  
 GATGCCTTCC TGAGCAGAGA AAATAGAATA CTTGAGCCAA TTTTCATGTA AAATGGATTA 120  
 TTTTCTGGC GTTTCCTGTC CTTCAAGTAA AAGGTTCTGG AATGAGTACT TCACTGCTGT 180  
 AATGGAGACA CTAATATTTT ATGAATGCAG TTTTACAGTT TGCAGTAATG CCAGGCCTTT 240  
 GGCTGTTTT CATTAGATGG TGCACTTGGC TGGAAGCATA TACTCTTGTA GCTTTGATT 300  
 TAAATTTAAC TTTCAAGTTG AAAGAGCAGT GACTCATCCA AAGGACAGGT GATATTTATT 360  
 TATTTTTTCT TGAAAATGCA GCACGGGTAT GTTGTTATCA CACGTTTAGG GGAATTGCCA 420  
 CACTTCCTCG AG 432

## (2) INFORMATION FOR SEQ ID NO:1451:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 463 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:

```

GAATTCGGCC AAAGAGGCCT AGGATTGAAC GCTTTCACCC TGTGCCCCGC GCCTGGCGTA      60
ACGCGTGGCC CCAGACCACA CGCTGTAACC CGGGGTGAGA GGGAGTGAGG TGGGACTTCG      120
TACCGGACCC GGAGCGCCGG CCTCGCCCGC GCGGGCAGCG TTCACTGTGG GGAGTGCTCA      180
CTCAGCCTAG GGC GGCCCGG GAGGACTGCC GGGAGGAGGG AGTCGCCCTT GAATTGAGGC      240
CTCAGCCTTG AATAGGGTAG GGAGGCAAGC CTAGCCGAGA GTTTAGCACT AGCAAAAGCC      300
TGGAGGCACC AGGGTCTGCC CTAAGAACTG CAGCGCCTCT GCTCTGGCTG GGATTTAACG      360
CATTACGTCT CTGCTGTTTA TAGGTGTTGT GTTTGGTCTT ACGACTTCGT ATTCTATAGT      420
TTTATTATAT TCCTGTTTTT TGAATTTTCC CACTTTGCTC GAG                          463

```

## (2) INFORMATION FOR SEQ ID NO:1452:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 407 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:

```

GAATTCGGCC AAAGAGGCCT AATGCAAGTC TGGACCGTTT AAAAGCTGGT AATTAAACAC      60
TTTATTCCAT ATCAGAATAA AAGTCAACTA GTTGAATATT TCTAGGTGAG ATGTGGTACT      120
ACTTTTTTTT TNGCTGTTAT TTTATGTCG TATCTAAAAT ATCTTACTGC ACTCTTTTTT      180
CAGGTTGCAG CAGATCCTTG AGTTTTGAAC CTGACGGGCA AATCAGAGCT TCTTCCTCAT      240
GGCAGTCGGT CAATGAGAGT GGAGACCAAG TTCACTGGTC TCCTGGCCAA GCCCGACTTC      300
AGGACCAAGG CCCATCATGG GCTTCGGGCG ACAGTAGCAA CAACCACAAA CCACGAGAGT      360
GGCTGGAGAT CGATTTGGGG GAGAAAAAGA AAATAACAGG ACTCGAG                          407

```

## (2) INFORMATION FOR SEQ ID NO:1453:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 368 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:

```

GAATTCGGCC AAAGAGGCCT ACGGCCAAAG AGGCCTATAG GCCTCTTTGG CCGGAAATCA      60
TGGTGTATA GATCAAAAGA TAAAAGTTTC ACAGAAGAGG TGGGATTTGA ACTAAGCTGT      120
TCATGCTCAG TAAGATTAGA GGAGGTGAAG CAAATGGGGG AATGTGTGCC AGAAGAGGAC      180
AGGTGCAAAG ATAAGCACTG GTGCTTGATC TTGACTGAAT TTTCAACCAA ACCAGCTGAC      240
TCTCAGGATA GTTGAAGGTC ACTTTCTGCT GTTTAAAGAA AGATTCTAAA GTTACTTAAG      300
AAATATTTGG CAAAAGACTC AAAAGGAAGG ATTCCAATTA CAATATAAAT AAAGTAAGAA      360

```

ACCTCGAG

368

## (2) INFORMATION FOR SEQ ID NO:1454:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 618 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

```

GAATTCGGCC TTCATGGCCT ACCGTGCTCT ATGCTGATCC TTTTCTCGT GAGAAAACGC      60
TGGCCTGTTA TTATTAGCTA AGGTCACACC CGCTGGGCAG CTCCTGGGAT TTTTGGATTG      120
CTCCCCACTC CAGAGGGAAG GCTATTTCTA GTGGCTTCTT TTCTTTGAGT CCTCCCTTCT      180
GTCTGTCTCT CTCCTGTTCC TCCTCTTTAC CAGTAGGGCT TCCTCAATGC TGACAGCCCT      240
GTGAAAAAAG GGGAGACATG CCGAGCTCCG GCAGGAAACT GCTGGCCCAG GACCTGGCTT      300
CTGGGGCACA AAGGAGAATT TCTGTGTTTG GAAAAGTACA GACTGAGCAG GTGACCCCCG      360
CACAGCCCTT TGGGGGAAAC ACTTGTGCCC TTTGAGTCTG ACTGATATAA ACACAGACTC      420
TCTTGACTGT CCCATAAAGG CCAAAGCCAG AGAACCTCAG AAAGGGACTT GCAAATTGTG      480
AGTGAGGCAT ATCAGCTGGT GCTTCTTTT CTCTGTGGGC TGCCATTTAT GAATCTCTTG      540
GTTTCTCTCT GTCTCTGTCC CTCCACTTTT CTCTCCTTTG CTGGTGTGTG CATTCCCTCT      600
GACGCGCTGG CTCTCGAG                                     618

```

## (2) INFORMATION FOR SEQ ID NO:1455:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

```

GAATTCGGCC TTCATGGCCT AGCCTTTTGT AAATCAGGA AAGACAAAGG TTCAATTACA      60
CCACTTTTGT CAATAAGCAA ACCAGGTATT TTTTCTTCTT CCTGTGTCTT GGATATGGCA      120
ATAAATTTT TAAATTGCTG TGAGAACCCA TATATGAAA GAGAGGAGTT GAATTGTGTG      180
TGCCTTTTAT GTCTTGAGAT TTATATGTGG AAAAGACGAC ATCTACTTCA AACTGTATTT      240
TTTTCGTTTT TTTTCTTTT TGGGGAAGGG GGGAGAACGG GGTCTTGCTC TGTCGCCCAG      300
GCTGAACTCG AG                                     312

```

## (2) INFORMATION FOR SEQ ID NO:1456:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

```

GAATTCGCCT TCATGGCCTA GCTTAATCTT ACAGTCATTT AAAATAATTT CAGAAATGTT      60
CCTTTCATAC CATTGTCTCC ACCCCCAAAC CAGCTTACTA AAAATGGCTT AGGATTTGTT      120

```

```

TTCAGTCCTT CCTCTTCCTC TCCCCTGCTC CCAGACAAGG GTGTGTACTC AATACTGTAT      180
TCAGAAGTTA CTTGGGTAG TTCTTTTTTT CCGATCTTTC AGTGTGATTA TTTTATTCAT      240
TTGAAATACA ATTGGATTCA TTCGTTTCCG TATGCTTTCA GTTTTAGCTT TTTTCCACTA      300
TCTTTGTTGA TATAATTGCA TTTTGTGATA GGGGGATATT AATATACTTC ACAAAGTCAG      360
AATAACATAA GGGTTTACTC AGATGTAACC TGTATCTTA GCCCGTGATC TCGAG          415

```

## (2) INFORMATION FOR SEQ ID NO:1457:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:

```

GAATTCGGCC TTCATGGCCT ACATTTTCTT ATTGATATAA AAATTGTTAG AGAAATATAC      60
AGTTGTATAT TCCCCCCTT TATACAGAAA TTTTACAATA ATTTTCAGATT TTTCTGAGTT      120
TTTTTCAGATT TTTGATTCTA TAATATGAGA TTATTCTTTC TTCCTCTTAT TTTTITAGGT      180
TATTTATTTT TTCTTTTCTT TTTAATTTGC TCATACAGGT TTAATCTCGA G          231

```

## (2) INFORMATION FOR SEQ ID NO:1458:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:

```

GAATTCGTGT CATATTTTTA AATGTTCTCT TTTTCAACA TTCAGCAAAA TATTATGTGC      60
TAGGAACCTCT CCCAGACGCT TGTTAACATC TATGAATACA ACAAAGATTC TGCCCTCCTG      120
GGCCTCTTTT CTGATGGGGA AGCAAAAATC TCGAG          155

```

## (2) INFORMATION FOR SEQ ID NO:1459:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:

```

GAATTCGGCC TTCATGGCCT AGGTGACTAA GTACAAAAAA ATAGTTTCTT CATTTGATTC      60
AAAATAGTGA GTAGGTTCCT TGGATAATAC ACAGTGGTAG TTGACATATT TTCTCAAAAC      120
ACAACCAGAA AACCCACTTC CGGTATTTGT AAATCACCTT TCAAGGGAAA AAGTGAACAC      180
GTATTCCTTG TATTTCTAGT TTGATTACCA AACCTGATGT TACAAAGAAA CCTCCGTTCT      240
GTAGACAGAA TTTCTTTTAT TTTTCTTCTT TTAATCCTCA CAATCACTTT CCCAGTGCCA      300
CCACCGCTCG AG          312

```

## (2) INFORMATION FOR SEQ ID NO:1460:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 459 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:

```
GAATTCGGCC TTCATGGCCT AGTCTCCCTC GGCCTGTGCC GCCGCCGACG CCGCTTGTGG      60
GCCCCGACTCC GCTCTGTCTG CTCGCCACC TTCTCCCCGA GCACTGCCCCG GCCGGCCGCC      120
ATGGCTAACG TGGCTGACAC GAAGCTGTAC GACATCCTGG CGTCCCGCCC GCGGCCAGCG      180
AGAACGAGCT GAAGAAGGCA TACAGAAAGT TAGCCAAGGA ATATCATCCT GATAAGAATC      240
CAAATGCAGG AGACAAATT AAAGAAATAA GTTTTGCATA TGAAGTACTA TCAATCCTG      300
AGAAGCGTGA GTTATATGAC AGATACGGAG AGCAAGGTCT TCGGGAAGGC AGCGGCGGAG      360
GTGGTGGCAT GGATGATATT TTCTCTACA TTTTGGTGG GGGATTGTTC GGCTTCATGG      420
GCAATCAGAG TAGAAGTCGA AATGGCAGAA GAACTCGAG                                459
```

(2) INFORMATION FOR SEQ ID NO:1461:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 511 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:

```
GAATTCGGCC TTCATGGCCT ACGAGATCAA GGACAAGAGG CAGCTTATAG ACAACCGCAA      60
GCTCATTGAG ACGCAAATGG AACGGTTCAA AGTTGTGGAA CGAGAGACCA AAACCAAAGC      120
TTACAGCAAA GAGGGCCTGG GCCTGGCCCA GAAGGTAGAT CCGCCCGAGA AGGAGAAGGA      180
AGAGGTTGGC CAGTGGCTCA CGAATACCAT CGACACGCTC AACATGCAGG TGGACCAATT      240
TGAGAGTGAA GTGGAGTCAC TGTCAGTGCA GACACGCAAG AAGAAGGGCG ACAAGGATAA      300
GCAGGACCGG ATTGAGGGCT TGAAGCGGCA CATCGAGAAG CACCGCTACC ACGTGCGCAT      360
GCTAGAGACC ATCTGCGCA TGCTGGACAA TGACTCCATC CTCGTTGACG CCATCCGCAA      420
GATCAAGGAC GACGTTGAGT ACTATGTTGA CTCATCCCAG GACCCCGACT TCGAGGAGAA      480
CGAGTTTCTC TACGATGACC TGGACCTCGA G                                511
```

(2) INFORMATION FOR SEQ ID NO:1462:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:

```
GAATTCGGCC AAAGAGGCCT ATTTGTTTTG TGGTTTTTAA ATTTTCTCTT CGCATAAAGG      60
GTAACATCTT GCAACTTGAT TCTTCACTT CATGATATGC CTTAGATTTC TTTCTTCC      120
AATACTCGAG                                130
```

(2) INFORMATION FOR SEQ ID NO:1463:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:

```

GAATTCGGCC AAAGAGGCCT ACTTGTNAAG TGCTTTTGAA TTAATAAAAT ATTAGCATAA    60
TTGTGNTAG TCAGTTGAAC CCACTGTTAC CATTGTTCTT ATCCCATGGG AAGCAGTTGG    120
TTACACGATT CTTATTTTAT AAGAAACAGC TGAGAGGCAC TATGGATTAG TCTTCTGAAG    180
TGAAGGAAAT ATAGATGTCT CCTAAGTGAT AGTTAACCCA TTTTITTTTT TTTTAGGCAT    240
AGAAGCCAGT TCAGGGTCCA TAATATTAG TGACCAACAT TTTAAAGTAT AGCAGCAACC    300
TGGTTCTTAA ACACAAAGTA AGTTGCCCAT TAACAAATGG CTTTATCTT TAGCATGAAA    360
ACTTTCACA CGTCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1464:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:

```

GAATTCGGCC AAAGAGGCCT ANAANAACCT TTTTCTGGG AGCAAGGTAG TTATTTCAAA    60
GCACAGAAA AGGCGGCGGG GGGCACAGAG AAGCACAGAG AAGCGGGGGC AGTTGCACAG    120
GTAAACATT CATCTTGGCT TTTCTTTTAA AAAGATAAAC TTTGTCCAC GTAAAGAGGA    180
ANACTGCATA GATATTCATT GAGATTATCT GATTTGTAC TGTTGCCAAA GAAAAACAA    240
AGGTAAATA CACGAGTTT NNCATTCAGA AGAAAGTATT TCAGGTAAAA ATTAATATT    300
AAGCACTTT TCTCAGCAGA AGAAATGCC AAATCTTAA GGACAGTACT CGAG          354

```

## (2) INFORMATION FOR SEQ ID NO:1465:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:

```

GAATTCGGCC AAAGAGGCCT AACTGCTCC AGCTCTGACT CCCTCATCCC TTGCCTGGAC    60
CATGGTAATT GACCTAGCT GGTCTCCTTT TCTCCTCTCA TCAGTCTCC ACATTGCTGC    120
TGTTTTCATC TTTGTGACAT ACAAATGTGT TGCTTTCCCG TCTAAACCC TGCTTGTCCT    180
TCCCATTTT GACTGCCTGC CCCAGCACG CACACACACA AACTCGAG          229

```

## (2) INFORMATION FOR SEQ ID NO:1466:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

GAATTCGGCC	AAAGAGGCCT	ATTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTAATTTAT	60
AAGGAATAGA	AATTTATTGG	CTCACAGTTC	TGGGGGCTGG	GAAGTCCCAG	AGTAAGGTGC	120
CAGCGTCTGG	TGCAATCCTT	CTTGTTGTGT	CACTGTGGAA	GGTGGAAGGG	CAAGAGAGGG	180
CCAAGCTCAT	CTTATTATAC	CAGCACCCAT	TCCAACATCA	TCCTCGAAGG	ATCCCAATTT	240
TGAAAGAAAA	AGCATGTGAG	ACACAGAACA	GGCGAGAGAG	TGAGGGCCCG	GCATGCCCCC	300
AAGTCCCCAC	CACCGCACCT	GCTCGAG				327

(2) INFORMATION FOR SEQ ID NO:1467:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 403 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GAATTCGGCC	TTCATGGCCT	AGAGAGAGAG	AGAGAAAAGG	AGGGGGTGGT	GGAGAAGCGG	60
GAGCGAAGGA	AAGGAGGCAA	AAGGCAAAGT	GAAGGAAAGC	TGGATAGCTC	GGCCTCTCCA	120
AAC TGATTGA	TTAGTCATGA	TCCCGCAGT	TTTAACAGGG	ACTCATTCAA	TTGGGAAGGT	180
GGAGCGCTGG	GGAGCAGATT	AGCATACGCT	TGTTTACTCA	TCTTCTGAGG	GATTTTTTCC	240
CCCTCTTTCC	TTTCATTTTG	AGAAGAAGGA	GGGAGGGGAG	GGGGGACTTG	GGGGGGGAGA	300
AGGGGGCTGT	GGCTTGTGTT	ATAAAGGACG	CAAAAAATAA	ATAAATTAGA	GCATCTTTTG	360
GGGGGAGGGA	ATTCAGCGGA	TCAGTCTTAA	GATGGAGCTC	GAG		403

(2) INFORMATION FOR SEQ ID NO:1468:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 329 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTCGGCC	TTCATGGCCT	ACACGAGGTC	AGACGTCACA	CATTGTTTTT	TGGCTTGTTC	60
TTTTGAAGTT	TTTACGACTT	GTCATGAGTC	TCGGCCTGGC	TTCTGTTTTT	CACTGTCCGG	120
AAGAGTGTGG	TCCTTCTGCA	TTTGACCTTC	CTTCACCCTC	ATCCAGTCCT	CCCAGTGTGG	180
CCGGTCTCAT	TTCGTGTCGT	CAGCTGGGTC	AGCTGGCTCG	GTGTGGAGTT	TGGATTTTCC	240
GTGATCCATC	CCATGCTTTT	TTTTCTTTTC	TTTCTTTTTT	CCTTTTCTTT	TCTTTTTCTT	300
TTTTTTCAGT	TTTCTCCCCA	ACTCTCGAG				329

(2) INFORMATION FOR SEQ ID NO:1469:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 352 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

GAATTCGGCC	TTCATGGCCT	ACAGGAAAAAT	TCTTCTGGCG	TATTTCATTTC	TGATGTTTAT	60
AGTATATGCC	TTTGAAGTGG	CATCTTGTAT	CACAGCAGCA	ACACAACGAG	ACTTTATGCT	120
AGAGAGGTAC	CAAAACAACA	GCCCTCCAAA	CGATGATGAC	CAGTGGAAAA	ACAATGGAGT	180
CACCAAAACC	TGGGACAGGC	TCATGCTCCA	GGACAATTGC	TGTGGCGTAA	ATGGTCCATC	240
AGACTGGCAA	AAATACACAT	CTGCCTTCCG	GACTGAGAAT	AATGATGCTG	ACTATCCCTG	300
GCCTCGTCAA	TGCTGTGTTA	TGAACAATCT	TAAAGAATCT	CTCACCTCG	AG	352

(2) INFORMATION FOR SEQ ID NO:1470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 609 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

GAATTCGGCC	TTCATGGCCT	AGAGCCGTCC	TATCAGATTA	TCTTAACAAG	AAAACCAACT	60
GGAAAAAATA	ATGAAATTCC	TTATCTTCGC	ATTTTTCGGT	GGTGTTCAAC	TTTTATCCCT	120
GTGCTCTGGG	AAAGCTATAT	GCAAGAATGG	CATCTCTAAG	AGGACTTTTG	AAGAAATAAA	180
AGAAGAAATA	GCCAGCTGTG	GAGATGTTGC	TAAAGCAATC	ATCAACCTAG	CTGTTTATGG	240
TAAAGCCCG	AACAGATCCT	ATGAGCGATT	GGCACTTCTG	GTTGATACTG	TTGGACCCAG	300
ACTGAGTGGC	TCCAAGAACT	AGAAAAAGCC	ATCCAATTA	TGTACCAAAA	CCTGCAGCAA	360
GATGGGCTGG	AGAAAGTTCA	CCTGGAGCCA	GTGAGAATAC	CCCCTGGGA	GAGGGGAGAA	420
GAATCAGCTG	TGATGCTGGA	GCCAAGAATT	CATAAGATAG	CCATCTGGG	TCTTGGCAGC	480
AGCATTGGGA	CTCCTCCAGA	AGGCATTACA	GCAGAAGTTC	TGGTGGTGAC	CTCTTTCGAT	540
GAACCTGCAG	GAAGGGCCTC	AGAAGCAAGA	GGGAAGATTG	TTGTTTATAA	CCAACCTTAC	600
AACCTCGAG						609

(2) INFORMATION FOR SEQ ID NO:1471:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

GAATTCGGCC	TTCATGGCCT	AATTGAATTTC	TAGACCTGCC	TCGAGCCTGG	GCAATAGAAT	60
GAGGCTCCAT	CTCATAATAA	TAATAAGCAG	CAGCGGCAGC	TCTGGTAGAT	TTTTTTGTGT	120
GCTTGTCCCT	ATGAAGACTT	AAGCCTGCTC	TTTCAATTTG	AAACCTAGGC	ACTTGGACTA	180
ACTTAAAGA	TCATGTAAAA	AATTTAATTT	TTGTTTGGTA	TAGATTTAAT	TGTGGTTTTT	240
TTTTTCTCTT	TTAGATATAA	TTGATCCTGT	TGCTTTAGAA	ATTCCATTAT	CCAAAAACCT	300
TCTGGCACAG	ATTAGTGCTC	TTGCTCTTCA	GCTGGATTCA	GAAGATCTTC	ATAATTATTC	360
AGGAAGCCAA	CTATTTGAAA	TGCACGAGAA	AACCTCGAG			399

(2) INFORMATION FOR SEQ ID NO:1472:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

```

GAATTCGGCC TTCATGGCCT ACAGGTTTTA AACTGGTTTT TTGCATACTG CTATATAATT      60
CTCTGTCTCT CTCTGTTTAT CTCTCCCTC CCTCCCTCC CTTCTTCTC CATCTCCATT      120
CTTTTGAATT TCCTCATCCC TCCATCTCAA TCCCGTATCT ACGCACCCCC CCCCCAGGC      180
AAAGCACTGC TCTGAGTATC ACATCACACA AAAGGAACAA AAGCGAAACA CACAAACCAG      240
CCTCAACTTA CACTTGGTTA CTCAAAGAA CAAGAGTCAA TGGTACTTGT CCTAGCGTTT      300
CTCGAG                                         306

```

## (2) INFORMATION FOR SEQ ID NO:1473:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

```

GAATTCGGCC TCATGGCCTA CAACTCCGCA GCAAACAACT CCGCAAACGG AAAAGAACG      60
ACATGATGCA ATCTTCAGGA AAGTAAGAGG CATACTAAAT AAGCTTACTC CTGAAAAGTT      120
TGACAAGCTA TGCCTTGAGC TCCTCAATGT GGGTGTAGAG TCTAAACTCA TCCTTAAAGG      180
GGTCATACTG CTGATTGTGG ACAAAGCCCT AGAAGAGCCA AAGTATAGCT CACTGTATGC      240
TCAGCTATGT CTGCGATTGG CAGAAGATGC ACCAACTTT GATGGCCAG CAGCAGAGGG      300
TCAACCAGGA CAGAAGCAAA GCACCACATT CAGACGCCTC CTAATTTCCA AATTACAAGA      360
TGAATTTGAA AACCGAACGC TCGAG                                         385

```

## (2) INFORMATION FOR SEQ ID NO:1474:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

```

GAATTCGGCC TTCATGGCCT AGATCCCCTT ATTTTGCCAA AAAGTGTGAT CAATTCATT      60
GGATAACTTT TATGTTTTAG GAACGTGGCC TCTCTTTTAA TTAGTGAGAA CTTACAAAAT      120
GGTTCAGAAA GTTTATATTT TTAAAGCTTT CATTGATTGA TATATTGAAC ATCTAAGGCT      180
TAACTATCTT TCCACTGGGA CAAAAACAGA ATTCTTAAAA ATGAGGAGGA GGGCCAGTG      240
TGGTGGCTTA CACCTGGAAT TCCAGTGCTT TGGGAGTCCA AGGTAGGAGA ACTGCTTGAG      300
GCCAGGGGTT TGAGACCAGC CTGGGCAACA CAGCAAGACA ACTCTACAAA AAATTAAAAA      360
AACATCCAG GGCCGAGCAT AGTGGTTCAC ACCTGTAATC CCAGCACTTT AGGAGGCCAA      420
GCCTCGAG                                         428

```

## (2) INFORMATION FOR SEQ ID NO:1475:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

```

GAATTCGGCC TTCATGGCCT ACTGGGATGT ATATGAGAGA CAGTGCTTTC AATTAAATCC      60
TTGGGTATAT TTTTATTAAT TTCCTCCAGA TTTTCTTTT AAGGCCTTTT CTAAGTTATA      120
CTGCATATCA AACTTCCCTG TTATTGAAGG ATATAAGGTA GAAGGTAAAA GCCATTTTCC      180
TATAAGTAAC TTGGGCATTT GCAAAGATTT TTCTCAAGTG CAGTTGTAAC TATACTAAAA      240
TATACTAATA TTGTGTTATG ATATACCTTG CTTTTTTTCT TTTATTTTTT CTTTGTAGAG      300
AGAGTTTTGC TCTTGTTCCT CAGGCTGAAG CGCTCGAG      338

```

## (2) INFORMATION FOR SEQ ID NO:1476:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

```

GAATTCGGCC TTCATGGCCT ACAAAGAGCT AGAAGCCATT GAAAGTCGGC TAGAAAAGAC      60
AGAATTCACCT CTAAAAGAGG ATTTAACTAA ACTGAAAACA TTAAGTGTGA TGTTGTAGA      120
TGAACGGAAA ACAATGAGTG AAAAATTAAA GAAACTGAA GATAAATTAC AAGCTGCTTC      180
TTCTCAGCTT CAAGTGGAGC AAAATAAAGT AACACAGTT ACTGAGAAGT TAATTGAGGA      240
AACTAAAAGG GCGCTCAACT CAAAACCGA TGTAAGAA AAGATGTACA GCGTAACCAA      300
GGAGAGAGAT GATTTAAAAA ACAAATTGAA AGCGGCAGAA CTCGAG      346

```

## (2) INFORMATION FOR SEQ ID NO:1477:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

```

GAATTCGGCC TTCATGGCCT ACAGGTTTTT ATTTTATATT ATTTTCCTTT AGCCTGAAAA      60
ATTTATTAT TTTTCTCTT AGTACAAGTC TGCTGGTGGT AAATCTCTT AGTTTGTGTT      120
TATTGAAAGA TATTTTATT TTGCCTTCAT TCCAGAAGGT TGCTTTTGCT GGATATAGGA      180
TTCTACAACT TTGCCTTTA ACATGTTATG GATGCCATC CTCTGTCTT TAGCTTCCAT      240
TGTTTCTGAT GCTAAATCTT CAGTCATTTT ATCATTGATC CTCTGTAATG TACTCGAG      298

```

## (2) INFORMATION FOR SEQ ID NO:1478:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

```
GCGAACTAGC CCAAATGCAC CTAGGAACAT TGTTGCTTCA GGACCAGTTA TTTCTGACCT    60
TCCAGTTGTT CCTGACTGTG AAGGGTGACC GCTTCCCGGG ACTCGAG                      107
```

(2) INFORMATION FOR SEQ ID NO:1479:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 340 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

```
GAATTCGGCC TTCATGGCCT ACTTATATTC TTTATTATTA TTTAGTACAA AAATAGATTC    60
CCAGTAGATA TCCACAAGCA ATATTAGCAG GGCTTCTGTT TCTAAGTGAC CACAGACTAA    120
CCCTTTCTAG GCTTTAACAT TGTAATAAT CCTATAACA GTTTGATTTT TTAAGATGAT    180
TTTTGATTTG AAGAGACAGG CTTTACATAA GCCTTCATTC CTTCAAAGG TCCTGACAAA    240
ATACTTGGGT TTTTCTCT TTTTTCATT CTGGTATGCT TTGCAGCATT TCAGCTGCTT    300
TGGTGGGGAC ACAGATAACC CCTTCGCTC CAGACTCGAG                      340
```

(2) INFORMATION FOR SEQ ID NO:1480:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 233 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

```
GCGATTATTG TAAGTTGACA ATTTATAATT GTATAAAAGT ATGAGGTACA AAGTGATGTT    60
ATAGCTTAAG AATACAGTAT GGTATGATTA AATCAAGTTA TTAACCTATC CTTACGTTA    120
AATGCTTAAA TTTTGTATG AGAACATTTG AAATTTACTC TTGGAAGGTA AAAAAAATC    180
TCAGGACCCC CCAAATTAAA GCCATGAAGC TGAATTGTGC AACAATCCTC GAG          233
```

(2) INFORMATION FOR SEQ ID NO:1481:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 266 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

```

GAATTCGGCC TTCATGGCCT AGATAACTAT TGCTCCCACT ACCCTTTCAG CTATCTCACA      60
TAACCTTTGAT ATATATTATT TTTATTATCG TTTATTAAAGT GTCTAATTTC CATTGTGAAG      120
TCTCCTTGGA CCTATAAGGC TGAAATAAAA TAATTTAAAA TTTATTTTCT TATTGTTTCT      180
AATTC AATT CATATAGTT AATGCAAGTG GTCATTGTGC TATTGAGTTT GGTACTTTGG      240
AGGTTTCTTT TTCTGGCTAT CTCGAG                                         266

```

## (2) INFORMATION FOR SEQ ID NO:1482:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:

```

GAATTCGGCC TTCATGGCCT AAGAAATGTT CACTTTTCCA ACTTAAAAGG ATTTTAAAAA      60
ATACAAACAT AATTGACCTA CCTGGTTCAA AGAACAGAAG TGAGGAGAAC TTGCTTAAAG      120
GTATTGATGT TATATTTTCT CTGACTGAG TGCTTGAAAA AAAATTTTAT TGAACATATG      180
TTCTCCTTCC GTGGCTTTT TGTCTTTGCT TTTTGTTTT GTTTTGTGTT TTTTCTTT      240
GAGATGGAGT CTCACTCTCT GCTCGAG                                         267

```

## (2) INFORMATION FOR SEQ ID NO:1483:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:

```

GAATTCGGCC TTCATGGCCT AAATTAGCAT CTAGTGTCAC AGGTAAAAGA ATTCAGGAC      60
CAGGTTTAAA CTTTATTTTA AATATTTTAA TACTTAGGTC TCTTTTTCCT GCCTCTCCCC      120
AAAGAAGAGC CACTGGCCTT AGTTGTTTGA GCTTACTGCT TATATTATAG AGTGTAATA      180
GGTAACTAGA GACTAAAATT TTATTAACCA GCATGTTTGG TATATTTAAA GCAGTTCTCG      240
AG                                         242

```

## (2) INFORMATION FOR SEQ ID NO:1484:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:

```

GAATTCGGCC TTCATGGCCT ACAGAGTGTG GTTCTGTAG CAACACTTCT CATGACCATC      60
TGTTTTGTGT TTATGATGAT TTTTTCAGGT CTGTTGGTCA ATCTCACAAC CATTGCATCT      120
TGGCTGTCTAT GGCTTCAGTA CTTGAGCATT CCACGATATG GATTACGGC TTTGCAGCAT      180
AATGAATTTT TGGGACAAAA CTTCTGCCCA GGAATCAATG CAACAGGAAA CAATCCTGT      240
AACTATGCAA CATGTACTGG CGAAGAATAT TTGGTAAAGC AAGGCTCGA G                                         291

```



## (2) INFORMATION FOR SEQ ID NO:1485:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

```

GAATTCGGCC TTCATGGCCT AGTAATTTT GATAGTAAGG GCTTTTATT GTCATTTT    60
GTTAATCGTT TCCTGTCTGT TTTGTATTTC TTTGTTTCCT CTCTTCCTCG CTTGGTATCA    120
TCTTTGCAAT TTGATAATTT TTGTTGTGAT ATACTTTGAT TCTTTCTATT TATCTCTTCT    180
GAATCTAATA TTAGTTTTT TTATCTTTTC TGTATCTATT ATTAGTTTTT TTTCTTTGTG    240
GTTATCATGA GGCTTCCACT CGAG                                           264

```

## (2) INFORMATION FOR SEQ ID NO:1486:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

```

GAATTCGGCC TTCATGGCCT ACCAGTGCCT TCCTCTTCCC TATATTCTGT GTGTCTTAAC    60
GGAATTATTT TTCCAAATCA TTGTGTGCAA AGAACTAAT GACATCATAA GTATGATTTC    120
TGTACACATT TTAGTTGTAA TTGCTAGGTT TTCCAAGATT TCACAGTCAT CAAGTCATCT    180
GTCCCAGAC ATCCCAACAA GTACTTATCA AGTGTCTCCA TCTGCTGCCT TCATCTCTCT    240
CAGGTGCCAT TCCAGTGACA TTGCTATAGC CTCTTGCTGT ACCGCCCTCG AG           292

```

## (2) INFORMATION FOR SEQ ID NO:1487:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

```

GAATTCGGCC TTCATGGCCT AATGGATATA GAATTCCAGG TTGATAAACA TTTTCTGTCA    60
CAACTTTACA ACTGAAGGCA TTGCCCTTTT GTCTTTTACC GTTCATTGTA TAAAAAGTCT    120
GGTGGAATC TAATTCTTAC ACCTTTGTAG GTGAGCATTT TTTCTTTCC TGTGACACAT    180
TTGTGATTAT CTGATCCTTA GAGATCTGAA GTTTTATCAT TTGTATCTAT GAGATCTTTT    240
CCCATCCTCC TGGTGCTCGA G                                           261

```

## (2) INFORMATION FOR SEQ ID NO:1488:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 488 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

GAATTCGGCC TTCATGGCCT AATTTTCTGT ATATTTTAC ATGAATTTCA GTACTATATT	60
GAACAGCTAT GTTTAAGGAT AATCAAAAGA TGACTGTGAC AGGGAGAATT TGGAAATATT	120
AGCCCAAGTC TAGTCAATTG TGATTGTTGT TGCCTTGGTA CTAGTTTAAA TTGGGGCTAA	180
ATTTAGAGCC ACTGGGACTG AGTACCTCGG TTGATCTCCA ATGATTCCAA TTGCTAAAAA	240
GTAAAGGGCA ACCACACATA CGTACCAATT CTGAAGTCCT AGGAAATTTT TAAAAGAATC	300
TAAGAGAATA AGAAAATGTA AAAGGGAGAA GAGTTTATAT GTCATGACGT AAGTTT TAGA	360
GTTATTTACT TTGTAAGTGG ACCTTCTCTG CTTCTTCCAA TGTGTTTATT AAGACCTGC	420
TGAAAAATGA CCTTCCAACCT CCCCTGAGTA ATTATTTAAG ACCCTTTCAT CTTACCAACC	480
CTCTCGAG	488

(2) INFORMATION FOR SEQ ID NO:1489:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 238 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

GAATTCGGCC TTCATGGCCT AGTCTCAAAA AAAAAATCAA AATAAAAGTA AAAGTAAGAA	60
GATGGAAATT TGCTTAGCTG TGAAAGGAAA GGCGATCTGT CTGATGTCCT GTGTTTGGTG	120
CCTAGGTGGG CTTGCTGCTT GCATTTCCCTG CGTTGCAGTG TCAGGATTTT TCAGGGATCA	180
GCCTTGGCAC TGGAGACCTT CACATTTTCC ATCTGGTTAC TATGGCACAC AACTCGAG	238

(2) INFORMATION FOR SEQ ID NO:1490:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 263 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

GAATTACTCT GGAAGATATG CTCTATGCTG CTTTCATCCAT AAAGAGTAAT TATTTGGTGT	60
TCATGGCGGA ACTGTTCTGG TGGTTTGAAG TGGTGAAGCC GTCTTTTGTA CAGCCTCGTG	120
TTGTTCTGTC ACAAGGAGCT GAACCTGTAA AAGATATGCC TTCAATTCCT GTCTTGAATG	180
CTGCCAAAAG AAATGTCTTA GATAGTAGTT CTGACTTCCC TTCAAGTGGG GAAGGAGCTA	240
CATTTACACA GTCTCATCTC GAG	263

(2) INFORMATION FOR SEQ ID NO:1491:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 257 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

```
GCGATTGAAT TCTAGACCTG CCTCGAGCTC ACACCTGGAT TATCTCAGTA GTTCCCAAC    60
TGGTTTCCTT GTTCCATTC TTGCCTCCTT CTGTCTACTC TCAATATAAC AGCTAGAACA    120
ATCCTTTTAC AATGGAATTC AGATCATGTT TACCCCTCTG TTCAAATTCT CCAGTGACTT    180
TCCAGTTTTT ACATGATCTG GCTCCTACTA CCTGTCTCAC TGTGTTTCCT ACTACTCTCC    240
TGCCCTTTCT CCTCGAG                                257
```

(2) INFORMATION FOR SEQ ID NO:1492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

```
GAATTAAAGA GGGCGATATC ATCACACTCA CTAACCAAAT TGATGAGAAC TGGTATGAGG    60
GGATGCTGCA TGGCCATTCA GGCTTCTTCC CCATCAATTA TGTGGAAATT CTGGTTGCC    120
TGCCCCATTA GGATGTTATG CTGGCTGGCT CGCCTCCTCT TGACCCAGAT AGTTACGGTT    180
AACCACTGCT TTGGCAATGC TGCTTATAAC ACATCCCAAG TGCAGGCCGC AGTGGTCCAC    240
GTCATCCAGC CCCACCAAGT GACTTTGGTT GACTTGTGGG CTCCCACAGG ACTCGAG      297
```

(2) INFORMATION FOR SEQ ID NO:1493:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

```
GAATTCGGCC TTCATGGCCT AAAAAGAAAG AAAAAGAAAA GAAAAACCT TGGAGAAGTA    60
AGGGATTCTG TAAAAAATTT CCCCAATTTT ACTAGAGAGA TTGACATATA AATTAGAAA    120
ATTGAGATAA CCTATGTAAG ATGCTATGTA AGACAACCAT TGCAGAGACA CAAAGTAATC    180
AGATTCTTGA AGGTCAATGC AAAAGAAAAA AATATTAAAG GCACTCGAG      229
```

(2) INFORMATION FOR SEQ ID NO:1494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:

```
GAATTCGGCC TTCATCTGAC AATTAAAAAC ACTACCTTAG TTTGTTTTTC TGTAATTGAA    60
```

```

TTTGACAGT TCTATTTTAC TTGAATTAGT CTTTTTATAT ATATATAGGC AGAAGTACTT   120
AAATAAATCT TCCCTTAAGT ATCAAAAGCA AAAGAATAAC ATTCATAGAA GTCTAACATG   180
TTCAAAGTGT TAAATATACT ACAATTGTTC ATTCACATTA TAAATGCAGC TAAATGACT   240
AACCTTTCAG ATCAACCCCT CGAG                                           264

```

## (2) INFORMATION FOR SEQ ID NO:1495:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 190 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:

```

GAATTCGGCC TTCATGGCCT ACCTTCCTTC CTCCTTCCT TCCTTCCTT CCTTCTTCC   60
TTCCTTCCTT TCCTTCCTT CTTTCCTTTC CTCTCTTCT CTCTTCTGT CATGGTCTGG   120
CTCTGTTACC CAGGCTGGAG TGCAGGGGTG CAATCTCAGC TCGTGCAAC TTCTTCCCC   180
CCAACTCGAG                                           190

```

## (2) INFORMATION FOR SEQ ID NO:1496:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 232 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:

```

GGCCTTCATG GCCTACTAAG CTATTTGATT CTAAGTGAAT ATGTTATCTC TTATTAGAGG   60
ATATGTTAAT TTTCTGTCAT TTTATTCATT TATTAACCTA ACATCTCTGA TTGCCTACCA   120
TGTGTCAGGC TCTGTACTAA GGATTGAGGA CCCAAAGATG AACAAAACAT GGGGCCTAAT   180
TCAAAGATTT CACAACTGG AGAGAAAGTC AGCCACATAC AAAAGCCTCG AG           232

```

## (2) INFORMATION FOR SEQ ID NO:1497:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 152 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497:

```

GTAGAATTGT ACAGTGCTTA TGAGTTATGC ATGTGTTCTT GGTCTTTGTT CTAGGATTTT   60
TTTTTTTTTT TGATTGCTGC TCCAGTTGCC TTAATTACTT TGACATTGGA GTTGACCACA   120
TGATGGTGTT CCACACTTCC CCTAGGCTCG AG                               152

```

## (2) INFORMATION FOR SEQ ID NO:1498:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 254 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498:

GCGATTGAAT TCTAGACCTG CCTCGATCTC TTGTATTCAG TATTTTGTGG GGGAGGTACT	60
TTGAAACTGT GTAAATATAC CATTCTCAT TAAACTTTTC AATTTATTCC CTTATTTAGA	120
TGCGTATGAA CTCATGGCTT CTTGTTTTAT TTGATGGATC CAAATCTGTT AATATCCTTA	180
CTGATTGGA TGCTCAGACT GCCCCAGATT TGGCCAGTGG AAGCCCTTC AGGCTTGCTC	240
CCATGTCCCT CGAG	254

(2) INFORMATION FOR SEQ ID NO:1499:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 658 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

GAATTCGGCC TTTCATGGCC TAGAGACGCG GGTGGCTGC CATTTAAACG CGGCCATCGG	60
TCCGGCCATC ATCCCCTTCA CGGTACTAGA CTCCGGGATG GTGAGATCCT TCTCATCCTT	120
TGGGGGCCGA CCCCGCTTCC GGGGACTTTG CTCTTGGGCT CTTTTCAGAG GGGATTGGA	180
GCCTCTCTCT GAAGAGCCTG AAGACACCCT CTTCTTTCCT TCTCCCATGT TCTTCTCAC	240
CTTCCCTTCA GACAGGCTAA GTTTGCGCTT CTCATCACCT GAGTTTGGCC TACTTCTCTC	300
CTCACTGGAA TTACGTCGAT TCTTGTATC AGAAGAATG TGGGATGACG TCTGGTCTTT	360
CCCTTTGGCT CTCCTGTAGG CCATGAAGGC CCGGCCTTCA TGGCCTACCA TTTCTTACAC	420
ACACTGCCAG AGATACTCTA GGCATGTAAA GCACAAACAT ACATATAAAA TCTGCCGGCT	480
TCAAAAAATA TAAGTAGGAT GTCATCTATA CTGTCATACA CTTTGTTTTT TATCACTTAC	540
TTAATGTTAT ATCTTGGATA TTGTATTACC CTGGGTATTA AAAAGAACTC CTTTCACATT	600
TTAAAATAAC AATCTGAGCA CTTCATAAAT CCAAATGCGT ATCTCCAGTC TGCTCGAG	658

(2) INFORMATION FOR SEQ ID NO:1500:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 113 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCTAGA CCTGTCTCGA GAAACCAGAG GACTTTTCTG CTTTGTGTTT TCTTTTAGGA	60
GGTAATAAAA CCGTGAATTT ATTTAAATGC TAATGTGTAG GATCTCACTC GAG	113

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145,

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or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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NO:1253, SEQ ID NO:1254, SEQ ID NO:1255, SEQ ID NO:1256, SEQ ID

[illegible]

NO:1393, SEQ ID NO:1394, SEQ ID NO:1395, SEQ ID NO:1396, SEQ ID NO:1397, SEQ ID NO:1398, SEQ ID NO:1399, SEQ ID NO:1400, SEQ ID NO:1401, SEQ ID NO:1402, SEQ ID NO:1403, SEQ ID NO:1404, SEQ ID NO:1405, SEQ ID NO:1406, SEQ ID NO:1407, SEQ ID NO:1408, SEQ ID NO:1409, SEQ ID NO:1410, SEQ ID NO:1411, SEQ ID NO:1412, SEQ ID NO:1413, SEQ ID NO:1414, SEQ ID NO:1415, SEQ ID NO:1416, SEQ ID NO:1417, SEQ ID NO:1418, SEQ ID NO:1419, SEQ ID NO:1420, SEQ ID NO:1421, SEQ ID NO:1422, SEQ ID NO:1423, SEQ ID NO:1424, SEQ ID NO:1425, SEQ ID NO:1426, SEQ ID NO:1427, SEQ ID NO:1428, SEQ ID NO:1429, SEQ ID NO:1430, SEQ ID NO:1431, SEQ ID NO:1432, SEQ ID NO:1433, SEQ ID NO:1434, SEQ ID NO:1435, SEQ ID NO:1436, SEQ ID NO:1437, SEQ ID NO:1438, SEQ ID NO:1439, SEQ ID NO:1440, SEQ ID NO:1441, SEQ ID NO:1442, SEQ ID NO:1443, SEQ ID NO:1444, SEQ ID NO:1445, SEQ ID NO:1446, SEQ ID NO:1447, SEQ ID NO:1448, SEQ ID NO:1449, SEQ ID NO:1450, SEQ ID NO:1451, SEQ ID NO:1452, SEQ ID NO:1453, SEQ ID NO:1454, SEQ ID NO:1455, SEQ ID NO:1456, SEQ ID NO:1457, SEQ ID NO:1458, SEQ ID NO:1459, SEQ ID NO:1460, SEQ ID NO:1461, SEQ ID NO:1462, SEQ ID NO:1463, SEQ ID NO:1464, SEQ ID NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500;

or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ

ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID

NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298, SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID NO:316, SEQ ID NO:317, SEQ ID NO:318, SEQ ID NO:319, SEQ ID NO:320, SEQ ID NO:321, SEQ ID NO:322, SEQ ID NO:323, SEQ ID NO:324, SEQ ID NO:325, SEQ ID NO:326, SEQ ID NO:327, SEQ ID NO:328, SEQ ID NO:329, SEQ ID

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or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.
6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.



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<b>(21) International Application Number:</b> PCT/US98/06954  <b>(22) International Filing Date:</b> 10 April 1998 (10.04.98)  <b>(30) Priority Data:</b> 08/835,913                      10 April 1997 (10.04.97)                      US  <b>(71) Applicant:</b> GENETICS INSTITUTE, INC. [US/US]; 87 CambridgePark Drive, Cambridge, MA 02140 (US).  <b>(72) Inventors:</b> JACOBS, Kenneth; 151 Beaumont Avenue, Newton, MA 02160 (US). MCCOY, John, M.; 56 Howard Street, Reading, MA 01867 (US). LAVALLIE, Edward, R.; 113 Ann Lee Road, Harvard, MA 01451 (US). RACIE, Lisa, A.; 124 School Street, Acton, MA 01720 (US). MERBERG, David; 2 Orchard Drive, Acton, MA 01720 (US). TREACY, Maurice; 93 Walcott Road, Chestnut Hill, MA 02167 (US). SPAULDING, Vikki; 11 Meadowbank Road, Billerica, MA 01821 (US). AGOSTINO, Michael, J.; 26 Wolcott Avenue, Andover, MA 01810 (US).  <b>(74) Agent:</b> SPRUNGER, Suzanne, A.; Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140 (US).		<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>  <b>(88) Date of publication of the international search report:</b> 12 November 1998 (12.11.98)
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BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakhstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JS 98/06954

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/12 C12N5/10 C07K14/47 C12Q1/68 A61K38/17

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N C07K C12Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 07198 A (GENETICS INSTITUT) 27 February 1997 see the whole document ---	1-8
A	WO 97 04097 A (GENETICS INST) 6 February 1997 ---	1-8
A	ADAMS M D ET AL: "3,400 NEW EXPRESSED SEQUENCE TAGS IDENTIFY DIVERSITY OF TRANSCRIPTS IN HUMAN BRAIN" NATURE GENETICS, vol. 4, no. 3, July 1993, pages 256-267, XP000611495 see the whole document ---	1-8
	-/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

3 July 1998

Date of mailing of the international search report

30.09.98

Name and mailing address of the ISA

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Authorized officer

HORNIG H.

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 536 637 A (JACOBS KENNETH) 16 July 1996 cited in the application see the whole document ---	1-8
A	JACOBS K ET AL: "A NOVEL METHOD FOR ISOLATING EUKARYOTIC CDNA CLONES ENCODING SECRETED PROTEINS" JOURNAL OF CELLULAR BIOCHEMISTRY - SUPPLEMENT, vol. 21A, 10 March 1995, page 19 XP002027246 see abstract ---	1-8
A	WO 90 14432 A (GENETICS INST) 29 November 1990 see the whole document ---	1-8
A	WO 96 17925 A (IMMUNEX CORP) 13 June 1996 see the whole document -----	1-8

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 98/ 06954

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see further information sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see further information sheet, subject 1.

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1. Claims: (1-8) partially

An isolated polynucleotide comprising a nucleotide sequence selected from SEQ ID no.1, consisting of a nucleotide sequence selected from SEQ ID no.1, consisting essentially of a nucleotide sequence selected from SEQ ID no.1; an isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence consisting of SEQ ID no.1; an isolated protein encoded by said isolated polynucleotides;

Inventions 2 to 1500. Claims: (1-8) partially

Idem as subject 1 but limited to SEQ ID nos.2 to 1500 respectively clone ID nos. B11 to BV29. (Invention 2 is limited to SEQ ID. no. 2; Invention 3 is limited to SEQ ID no. 3;.....Invention 1500 is limited to SEQ ID no. 1500);

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT, S 98/06954

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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